California GARDEN

MARCH-APRIL
1991
Volume 82 No. 2
ISSN 0008-1116
$1.50

HORTICULTURAL CALENDAR

March Weekends — **SAN DIEGO NATURAL HISTORY MUSEUM Canyoneers Outdoor Program**
Free guided nature walks. Information/brochure: 232-3821.

Mar. 2 & 3 — **SAN DIEGO DAYTIME AFRICAN VIOLET SOCIETY 10th Annual Show**
Casa del Prado, Majorca Room, Balboa Park. Sat.: 1-5 p.m.; Sun.: 10-4 p.m. Free.

Mar. 13 — *** SAN DIEGO FLORAL ASSOCIATION Basket class**
Casa del Prado, Room 103, Balboa Park. Martha Rosenberg, Pine Needle Basket, Intermediate Class. $10 SDFA members, $12 non-members. Call Marie Walsh to register: 298-5182.

Mar. 15 — *** SAN DIEGO FLORAL ASSOCIATION Bus Trip to East County**
Pickup at Balboa Park & La Mesa. Visit home & garden of El Cajon artist Dennis Torzeski & Cuyamaca College Horticulture Dept. $18 members; $20 non-members. Includes lunch. Reservations/information: 232-5762.

Mar. 16 — **AMERICAN BAMBOO SOCIETY, SOUTHERN CALIFORNIA CHAPTER, Show & Sale**
Quail Botanical Gardens, 230 Quail Gardens Drive, Encinitas. More than 50 kinds of bamboo on sale. Experts to give advice. 11-3 p.m. Free. Parking $1. Call 453-0334 or 534-2853.

Mar. 16 & 17 — **IKEBANA INTERNATIONAL, CHAPTER 119 23rd Annual Spring Show**
Casa del Prado, Majorca Room, Balboa Park. Flower arranging demonstrations; display of kimonos. Sat. & Sun.: 11-4:30 p.m. Free.

Mar. 20 — *** SAN DIEGO FLORAL ASSOCIATION Flower Arranging with Adrienne Green**
Casa del Prado, Room 103, Balboa Park. $15. Limited class. Call Marie Walsh: 298-5182.

Mar. 22-24 — **SAN DIEGO COUNTY ORCHID SOCIETY 45th Annual Show**
Scottish Rite Center, Mission Valley. Fri. preview: 6-10 p.m.; Sat.: 9-6 p.m.; Sun.: 9-4 p.m. $3.

Mar. 22-24 — **SANTA BARBARA BOTANIC GARDEN "Wildflowers in Focus"**
Lecture & Photography Workshop. 1212 Mission Canyon Road, Santa Barbara. Three-part program on art of wildflower photography by John Smithers, nationally known photographer. Fee: $80. Lecture only: $20. Registration/information: 805/563-2521.

Mar. 23 to Apr. 21 — **DESCANSO GARDENS Festival of Spring Flowers**
1418 Descanso Drive, La Canada Flintridge. Thousands of annuals & bulbs will accent the garden. 9-4:30 p.m. daily. Admission: $3. Call 818/952-4400.

Mar. 23 & 24 — **BALBOA PARK AFRICAN VIOLET CLUB 16th Annual Show**
Casa del Prado, Majorca Room, Balboa Park. Sat.: 12-5 p.m.; Sun.: 10-4 p.m. Free.

Mar. 30 & 31 — **EXOTIC PLANT SOCIETY 13th Annual Show**
Casa del Prado, Majorca Room, Balboa Park. Sat. & Sun.: 11-4:30 p.m. Free.

April Weekends — **SAN DIEGO NATURAL HISTORY MUSEUM Canyoneers Outdoor Program**
Free guided nature walks. Information/brochure: 232-3821.

Apr. 3 — *** SAN DIEGO FLORAL ASSOCIATION Basket Class**
Casa del Prado, Room 101, Balboa Park. Martha Rosenberg, Appalachian basket with natural materials. $18 members, $19 non-members. Call Marie Walsh to register: 298-5182.

Apr. 4 — **THE HUNTINGTON First Thursday Garden Talk**
1151 Oxford Road, San Marino. Ways using roses to give an "English cottage garden" look to Southern California home landscapes. 2:30 p.m. Free. Call 818/405-2147.

Apr. 6 — **DOS VALLES GARDEN CLUB Home Tour & Mini Flower Show**
Valley Center Community Hall, 28246 Lilac Road, Valley Center. Incudes bake sale, plant sale, & basket sale. 12-5 p.m. Tour: $7.50. Flower show entries: free. Call 749-9587.

Apr. 10 — *** SAN DIEGO FLORAL ASSOCIATION Lei Huie type Hat Band Class from Dried Flowers**
Casa del Prado, Room 102, Balboa Park. Jean Jones, instructor. All materials furnished. For price and registration call Marie Walsh: 298-5182.

Apr. 10-16 — **SANTA BARBARA BOTANIC GARDEN Springtime Tour of Pacific Northwest**
1212 Mission Canyon Road, Santa Barbara 93105. Visit gardens in Washington, British Columbia, & San Juan Islands. Pictures/itinerary on request. Write or call 805/563-2521.

Apr. 13 & 14 — **SAN CLEMENTE GARDEN CLUB Standard Flower Show & Plant Sale**
Co sponsor: San Clemente Parks & Recreation Division. San Clemente Community Center, Del Mar & Seville Streets. Sat.: 1-5 p.m.; Sun.: 11-5 p.m. 714/492-6002 or 492-5096.

Apr. 13 & 14 — **CORONADO FLORAL ASSOCIATION 66th Flower & Garden Show**
Spreckles Park, Orange Avenue between 6th & 7th, Coronado. Sat.: 1-5 p.m.; Sun.: 10-4 p.m. Adults $1.50; Children $0.25. Free parking.

Apr. 13 & 14 — **SAN DIEGO ROSE SOCIETY 64th Annual Show**
Balboa Park Club, Balboa Park. Sat.: 2-6 p.m.; Sun.: 10-5:30 p.m. $1.50; under 12 free.

(Continued on page 59)

San Diego Floral Association
INCORPORATED MARCH 1910

Published by
San Diego Floral Association
for 81 Years

PUBLICATION STAFF
EDITOR
John J. Gagliardi
ASSISTANT EDITOR
Lucy Warren
EDITOR EMERITUS
Elizabeth Glover
Allethe MacDonald
ASSOCIATE EDITOR
Donald Boyer
PRODUCTION EDITORS
John J. Gagliardi
Lucy Warren
CONSULTANTS
Betty Newton
Dr. George Herring
Frances Clare
STAFF WRITERS
Penny Bunker
Mary Lou Orphey
Tineke Wilders
Mary Jordan
Lucy Warren
COORDINATORS
Advertising
Lynn Beyerle
Renewals
Bill Rathmann

PRINTED BY:
Neyenesch Printers, Inc.
2750 Kettner Boulevard
San Diego, CA 92119

Manuscripts are invited. Deadline is 90-days prior to publication date. All manuscripts and illustrations submitted will be handled carefully but we cannot assume responsibility for their safety. All submissions must be double spaced and accompanied by returned postage, if you expect them to be returned to you. *Hortus Third* is the authority for all botanical names used in this magazine. All opinions expressed are those of the authors and do not do not necessarily reflect the views of the editors of the *California Garden*.

Address all editorial material to:
California Garden
San Diego Floral Association
Casa del Prado Room 105, Balboa Park
San Diego, CA 92101-1619

Postmaster, Send change of address to:

California Garden,
Casa del Prado Room 105
Balboa Park, San Diego, CA

California SINCE 1909
GARDEN
LIBRARY OF CONGRESS NO. ISSN 0008-1116

San Diego Floral Association &
Garden Center
Casa del Prado, Balboa Park
San Diego, CA 92101-1619
Monday through Friday
10 a.m. to 12 and 1 to 3 p.m.
619/232-5762

VOLUME 82 NUMBER 2

MARCH-APRIL 1991

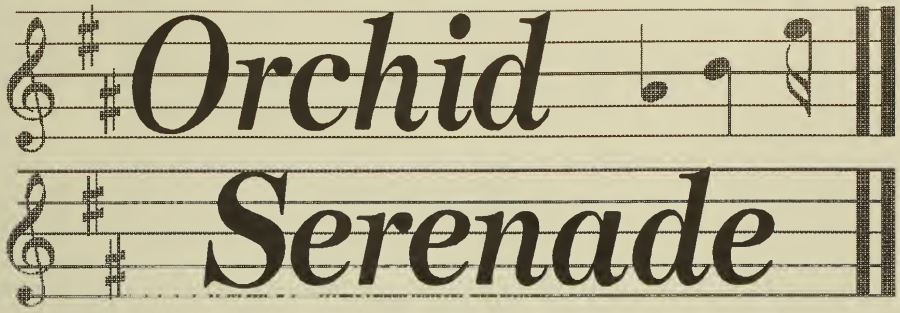
34 Horticultural Calendar . . . . . Mary Jordan
37 San-Kei-En . . . . . Ernest Chew
39 Balboa Park's First Japanese Tea Garden . . . . Lucy Warren
41 The Year of the Cosmos . . . . . Diane Windisch
43 New Perennial for Southern California . . . . . Betty Newton
44 Fennel: New Speciality Vegetable . . . . . James E. Simon
45 A Snap to Grow . . . . . Kathleen Smith
46 Horticulture Pumps Billions into Economy . . . Forrest Cress
47 San Diego Topiary Conference . . . . . Staff Edited
48 The Ocotillo . . . . . David L. Epple
49 Flower Developments . . . . . Lucy Warren
51 Book Reviews . . . . . Mary Lou Orphey
54 Bus Trips . . . . . Helen Gagliardi
55 Now is the Time . . . . . Penny Bunker
60 Affiliates . . . . . Nancy Cottingham

The cover illustration, a sketch of the Tekisui-En Garden, Nishi Hongawji Temple, Kyoto, was contributed by Celia A. Hansen who is a graphic designer. She studied Fine Art in Nevada and Texas. Celia also has a Graphic Design degree from Platt College in San Diego, and currently does freelance design work. Celia can be reached at 619/482-2346.

Single copies of the current issue of *CALIFORNIA GARDEN* magazine can be purchased for $1.50 at the locations listed.
CALIFORNIA ARBORETUM FOUNDATION, Inc., 447-8207, 301 North Baldwin Ave., Arcadia, CA 91006.
MISSION HILLS NURSERY, 295-2808, 1525 Fort Stockton Drive, San Diego, CA 92103.
OUCHI NURSERY, 2263-6114, 5003 Imperial Ave., San Diego, CA 92113.
PACIFIC TREE FARMS, 422-2400, 4301 Lynwood Drive, Chula Vista, CA 92010.
SAN DIEGO FLORAL GARDEN CENTER, 232-5762, Casa del Prado, Room 105, Balboa Park, San Diego, CA 92101-1619.
WALTER ANDERSEN NURSERY, 224-8271, 3642 Enterprise St., San Diego, CA 92110
FLOWER SHOWS: Show chairman contact *California Garden*, 232-5762 if you want the magazine sold at your next show.

CALIFORNIA GARDEN (ISSN 0008-116), a non-profit publication, is published bi-monthly for $7.00 per year or $13.00 for two years, by San Diego Floral Association, Inc. Single copy is $1.50. For foreign delivery add $3.00. Entered as second class matter, December 8, 1910 at the San Diego Post Office under the Act of March 3, 1879. Second Class Postage paid at San Diego.

The San Diego County Orchid Society Presents



The 45th Annual Orchid Show & Sale

Friday, March 22, 1991 - 6PM TO 10PM
Saturday, March 23, 1991 - 9AM TO 6PM
Sunday, March 24, 1991 - 9AM to 4PM

ADMISSION $ 3.00 **FREE PARKING**

Children Under 12 FREE If Accompanied By An Adult

Scottish Rite Memorial Center
1895 Camino Del Rio South In Mission Valley

SAN-KEI-EN

Ernest Chew

THERE IS A NEW ATTRACTION in Balboa Park. It is called San-Kei-En and is nestled on the east side of the Organ Pavilion. It is the completed first phase of the Japanese Friendship Garden and is open to the public free of charge on Tuesday, Friday, Saturday and Sunday.

It is amazing how easy it is to write those few sentences to cover public availability of something that has taken years of time, labor and travail and a little less than a million dollars to accomplish.

Photos by John Gagliardi

There are many who have walked past that Japanese Gate since its erection in 1968 that ceased seeing it and the proclamation next to it that there was to be a garden developed there, became an idle promise. No more! The dream has begun to form out of the hearts of the believers and although only a part of that vision has materialized, the rest of the dream is already forming in the mist.

It has not been an easy birth. At the time the gate was erected on the site chosen by the city, the garden was a concept and project of the San Diego Sister City Society whose counterpart in Japan is Yokohama. It was a project that was much too massive for the Sister City organization to handle. In late 1980, a Japanese Friendship Garden Board was formed and the Sister City Society transferred the concept and responsibility for development of the garden to the Board.

Little had been done in the twelve years since the gate had been raised. It was actually a job from 'scratch' that had been taken over by the new board. Since no fund raising had been done, money was not available to do anything. There weren't any drawings on what the garden was to be. A series of three annual garden festivals in Balboa Park, and some private donations, brought in enough money that in 1984 the search for a landscape architect could be made and serious leasing of the proposed site could be undertaken.

Now the work began. In reality, although the garden had long been a dream, the work that has brought it to this point has all been done in the past six years. With the selection of the landscape architect, Mr. Ken Nakajima, of Tokyo, and our local architect, Mr. Hiroo Kurano, who would do the project drawings, the garden started to solidify. With the signing of the lease was the first big breakthrough in funding through a pledge from Kyocera International of $500,000 and a personal pledge of $100,000 from Dr. Kazuo Inamori. In 1986 the master plan was approved by the city and adopted. On August 29, 1990, with the financial help of many, many friends, Phase One opened to the public.

What kind of a garden did this Japanese Friendship Garden Board decide to build? The decision was not entirely theirs. Under advisement by Professor (retired) Mitsuo Yokoyama, their Japanese landscape advisor, and the advice of Ken Nakajima, the landscape architect, the design of the garden best suited to the area and terrain on the lease in Balboa Park would be one called by the Japanese a Kaiyushiki Garden. It is of the circuitous strolling style and is a great favorite with the Japanese today. It symbolizes the world in miniature.

San Diego's garden will feature a central pond surrounded with strolling paths, a pastoral scene and a mountain retreat. Primary consideration will be given to the promotion and understanding of Japanese culture

through the active use of cultural facilities: a tea house and garden, a cultural center, an arbor and an exhibit building. To broaden the aesthetic and educational impact of the garden, a study center will be developed.

In Japan it is often customary for the landscape architect who designs the garden to give it a name. The decision was turned over to Professor Yokoyama, the garden's advisor. The professor, in agreement with ken Nakajima, the architect, named the garden "San-Kei-En" (Three-Scenery-Garden). Though pronounced exactly the same as that of a famous Japanese Garden in San Diego's sister city of Yokohama, the Yokoha garden name is translated as "Three-Ravine- Garden." In the San Diego name the characters refer to three features; pond, pastoral and mountainous.

A major decision for the board was to decide how to proceed with the garden. Should all of the money be found and the garden done all at once, or should it be done on phases. The phasing procedure was accepted because it was felt that if the garden was started and people could see some accomplishment they would be more open to donating the funds needed to finish it.

Phase One is now complete and is known as the Exhibit Building. It is a small area of less than an acre and features a Sand and Stone (Sansui) garden and a building of Japanese design which presently displays the model of the complete garden and drawings pertinent to the garden's development. It was originally planned that the Charles Dail Gate be used as the entrance to this area, but because of its fragility, it was decided to build a second gate for daily use. When the entire garden is completed the main gate will be at the bottom of the canyon. The theory is that entering a garden should be an uplifting experience which would be defeated if one walks down into it.

What's next? First and foremost, the present momentum has to be maintained. At 1988 prices the cost estimate for construction alone of the rest of the garden is over eleven million dollars. A funding drive to raise the money is of primary importance.

Construction for the next phase entails placement of all utilities needed: electrical, sewer, water and the raising of the canyon floor about seventeen feet. At present the canyon is too steep and the bottom too narrow to house the garden and lake. By raising the canyon floor a much wider base will be available. All this needs to be done before any garden construction can begin.

The water feature will be the major focal point in the lower canyon. It will be reminiscent of a quiet inlet of the sea. There will be a sand beach and a boat landing with a stone lantern at the water's edge. Also planned is a pine island connected to the beach by a wooden bridge.

The canyon branch to the east will house the pastoral scene of the garden and will be a gradually sloping area of rural Japanese appearance. This will be the sunniest area and will house a good bit of color from flowering trees and shrubs to perennials and annuals.

To the west the canyon branches upward at a fairly steep grade and will house the fast moving mountain stream with its cascading water, a koi pond and plantings of trees with the feeling of a mountain retreat.

Still wrapped in the mist of the dream, these developments are just as possible as the part that has materialized. It will take the cooperation and help of a lot of people, both private and commercial, to make it all happen. Tremendous interest has already been shown by the public. In December there were over 8,000 visitors in the sixteen days that the Exhibit House was open. Many of them have become members through the new membership program that has been started for those who wish to show their support of what is being done. A forthcoming newsletter will be sent to members to keep them informed of the developments and help them to better understand the features of the garden.

Membership information is available. Call the garden office - 619/232-2721.

Ernest Chew is a horticultural consultant. He has been a member of the Board of Directors of the Japanese friendship garden Society for many years. He volunteers his time as horticultural advisor to the garden.

PACIFIC TREE FARMS

CATALOG $1.50

Our trees are selections of the best performing varieties available.

Closed Tuesdays

FRUIT • NUTS • BERRIES

For Mild Climates

- STONEFRUIT TREES – Many on Zaiger semi-dwarf root stock
- APPLES – Anna, Dorsett Golden, Gordon, Granny Smith, Mutsu, Ein Shemer
- CITRUS – 65 varieties • FLORIDA BLUEBERRIES
  - KIWI FRUIT VINES – low and high chill
  - PERSIMMONS – 6 varieties
- MACADAMIA, WALNUT, ALMOND, CHESTNUT, PECAN
- MANGO, SAPOTE, BANANA, LITCHI, CHERIMOYA, PAPAYA

• DECOLLATE SNAILS •

4301 Lynnwood Dr., Chula Vista 92010
(619) 422-2400

BALBOA PARK'S FIRST JAPANESE TEA GARDEN

Lucy Warren

Moving into the twentieth century, Japan had shed its earlier isolationism and became a willing participant in both of the California expositions celebrating the trade opportunities of the opening of the Panama Canal in 1915. As early as February, 1913 it had announced its willingness to install a "splendid exhibit" in San Diego. Nearly thwarted by anti-Japanese sentiment following the announcement, Japan perservered and created one of the few exhibits intended to remain permanently in the park. Many San Diegans still remember having refreshments in the Japanese tea pavilion and enjoying the pleasant garden behind the Lath Botancal Building, an area now included within the San Diego Zoo. From 1916 to 1942 the Hachisaku Asakawa family leased and maintained the garden and pavilion to the delight of residents and visitors.

The garden was of classical Japanese design and included an exact reproduction of the 2,000 year old Katsura temple of Kyoto with few concessions to current construction methods, the only one of its kind in America at the time. Its features included a steeply arched folo bridge, the Bridge of Long Life, without which no temple garden is considered complete. Like many Japanese details, both practical and symbolic, the

high arch allows flood waters to pass under it easily with less opportunity to wash it away. By superstition, if one is able to cross such a bridge without slipping he is assured of long life — thus its moniker.

The bridge crossed a lagoon which was fed by a fountain, indicating a never ending supply of water. An assurance which is always welcome but less certain in San Diego, even now.

THE TESTED PRODUCTS FOR SAN DIEGO COUNTY GARDENING!

MILORGANITE - Since 1928 the only salt free organic fertilizer.

LOAMEX - The professionals choice in long lasting organic soil amendment.

FERTI-PILLS - Feeds trees and shrubs safely for 2 years.

SARVON - The enzyme, humic acid penetrant that reduces water usage. Ideal for slopes, container and all garden plantings.

ASK FOR THESE PRODUCTS AT YOUR FAVORITE NURSERY.

Garden accessories included many carved stone lanterns of various types. Sachi fish on the temple roof symbolized good luck and in Japan were said to devour devils. Figures of cranes enhanced the garden symbolizing longevity, as the crane was considered the longest living bird.

The garden designers brought many plants from Japan for the garden from trees to grass, shrubs to flowers. In Southern California we are familiar with many "typical" Japanese plants such as bamboo, wisteria, azelea, and evergreen pine, juniper, cedar. The garden was graced with a sacred Icho tree, seemingly a variant of the maidenhair tree (*Ginkgo biloba*). But they also made do with new world vegetation in some areas, easily keeping the look and texture of a traditional Japanese garden.

For in-depth reading on the features of Japanese gardens of the period, I highly recommend the book **Landscape Gardening in Japan** originally written by Josiah Conder in 1893, revised in 1912, and currently available in paperback from Dover Publications.

"Sōeki" Shape.

"Sōwa" Shape.

For many years the Japanese Garden in Balboa Park inspired gardeners in San Diego to include plants and elements of these beautiful environments in their own gardens. We are pleased to be able to once again enjoy a Japanese Garden in the Park.

LUCY WARREN - Garden writer and assistant editor **California Garden**.

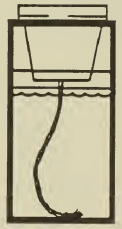
ADDITIONAL INFORMATION:

Gorton, G. R., "Monthly Excursion Through Exposition Gardens," California Garden, October, 1915, pp. 8-10.

McFadden, Dorothy Loa, Oriental Gardens in America, Douglas-West Publishers, Inc., Los Angeles, CA, 1976.

PATCHES AND POTS / 583 El Cajon Blvd. / Dept. AV / El Cajon, CA 92020 / (619) 442-7037

OYAMA "SELF CONTAINED" PLANTERS



Size	Number of Planters			
	1	6	12	18
4"	$2.25	$12.00	$21.00	$27.00
5"	$2.50	$13.50	$24.00	$31.50
5½"	$3.00	$16.50	$30.00	$40.50

Colors: White, Forest Green, Brown. Colors may be mixed.
Each planter comes with the correct amount of perlite.

CALIFORNIA RESERVOIRS AND MINI POTS

Size	Pots Description	Number ·10	25
1¼"	4TO Rd/Saucer	$3.25	$6.75
1¼"	4TO Rd/No Saucer	$3.05	$6.25
2"	TO5 Rd/No Saucer	$1.10	$2.50
2¼"	TO6 Rd/No Saucer	$1.10	$2.50
2⅛"	5.5A Rd/No Saucer	$1.10	$2.50

Color: All Terra-cotta

Reservoirs

For 4TO - 1¼" Opening
For TO5 - 1⅛" Opening
For TO6 - 1⅛" Opening
For 5.5A 1⅛" Opening

Amount	Price
1	$1.25
10	$10.00
25	$22.50

These reservoirs include wick.
The 1⅛" and 1⅛" hole sizes may be combined for quantity discount.

Amount	Price
1	$1.50
10	$13.50
25	$31.25

These reservoirs (Do Not) include wicks.

Colors for all reservoirs are: Lavender, Watermelon, Crystal, Light and Dark Blue, Light and Dark Green, Gold, Yellow and Red. These are transparent colors so water level is visible. *Please indicate size hole you wish.*

MINIATURE SINNINGIAS (White Sprite or Pusilla available during shipping season for $2.50 each in egg terrarium. May be ordered with supplies.

SHIPPING INSTRUCTIONS: 48 States $3.25. Hawaii, Alaska and all other areas actual cost. UPS charge for COD $2.75. California residents add sales tax. MasterCard, Visa and American Express accepted. For credit card orders send all information on card. Street, zip code, and phone number a *must* for all orders. Phone orders gladly accepted. Phone (619) 442-7037 from 6 AM until 6 PM Pacific Time Zone. Canadian orders welcome. Wholesale price list available for businesses. Write for information.

THE YEAR OF THE COSMOS

Diane Windisch

MODERN GARDENERS TEND TO THINK of cosmos as they were in grandmother's cottage garden - tall, sprawling plants that needed staking and were relegated to the back of the border. Thanks to recent breeding many varieties of cosmos have been downsized, while retaining their airy and colorful qualities.

The cultivars are so various that an annual bed could be crafted solely with cosmos and yet retain a diverse look. Cosmos may be tall or short, produce single or semidouble flowers and have petals that are daisylike, quilled or anemone shaped. its color palette begins with pure white, shades into all the pastel hues and ends with bright yellows to reds.

Cosmos, like many of our warm weather annuals such as dahlias and marigolds, originated in Mexico and South America. Spain plays an important role in the introduction of cosmos to Europe. In 1788, Charles II of Spain, sent an expedition to the colony of Mexico. Several years were spent identifying and cataloguing native forms unknown in Europe. Seeds of cosmos and other New World plants were sent to Europe but history does not tell us if Europeans brought cosmos back to North America.

Spanish priests grew cosmos in their mission gardens in Mexico. The evenly placed petals led them to christen the flower "cosmos," the Greek word for harmony or ordered universe. In 1897, the Plant Introduction Center in Washington, D.C. was searching for plants adaptable to United States climatic conditions. They brought the cosmos north of the border where it became known as the Mexican Aster.

Cosmos belongs to that vast family of plants known as *Compositae*. Composite flowers include many garden favorites such as marigold, aster, dahlia and daisy. Although there are 20 known species of cosmos, two annual species, *Cosmos sulphureus* and *Cosmos bipinnatus,* are most familiar to home gardeners.

These two species are most easily differentiated by leaf structure and flower color. The leaves of *C. sulphureus* are long, with narrow lobes and hairy margins. The flower colors of this species are always shades of yellow, orange or red. The *C. bipinnatus* has leaves that are finely cut into threadlike segments. The foliage looks similar to ferns. The flowers are white or various shades of pink to dark rose.

Cosmos sulphureus - The native species can range in height from 4 to 7 feet but the cultivated varieties are not as tall. The flower heads are composed of disc and ray flowers. The disc, or center flowers are yellow: the ray, or outer petals range from pale yellow or mustard to orange-scarlet. Red is a relatively recent addition to the color range of *C. sulphureus*. The native species is golden-yellow to orange. 'Sunset,' a Gold Medal AAS winner in 1966, was the first step in the direction of pure red flowers.

Cosmos bipinnatus - Native species can reach heights of 7 to 10 feet but most cultivated varieties are considerably shorter. The flower heads can be 4 to 6 inches across the bloom. The center (disc) flowers are yellow: the ray (outer) petals are white, rose, pink or crimson.

Cosmos is easy to start from seed. Even the novice gardener will be rewarded with little effort. Rich, fertile conditions are not necessary to grow cosmos, adequate drainage is. When preparing a garden bed with a high clay content, amend the soil with sphagnum peat moss or gypsum to improve drainage. The seeds may be sown outdoors after all danger of frost is past and the soil has

warmed to at least 65°F. Scatter the seeds right where the cosmos are to be displayed. Firm the seeds into the soil, cover with a thin layer of fine soil and water gently. Seeds will germinate in five or six days.

In areas that are usually frost-free, such as coastal California, Florida and the desert Southwest, seed may be sown in the fall. Cosmos does not require long days for flowering, it will bloom during the winter. Sow seeds in September when temperatures fall below 80°F. If there is no killing frost, cosmos will flower all winter.

Once the plants have two sets of leaves, thin to about one foot apart to allow enough room for future growth.

Winter weary gardeners may wish to start cosmos seeds indoors. Here's a chance to enjoy welcome greenery weeks before outdoor gardening can begin and to have larger plants available once warmer weather comes.

Seeds may be started about six weeks prior to the date of the last frost. There is a wide variety of suitable containers. Use items such as peat pots and cubes or plastic flats or trays. As an alternative, recycle kitchen items such as milk cartons or styrofoam coffee cups.

Keep plants evenly moist. After the first set of true leaves emerge, seedlings can be fertilized on a weekly basis, using water soluble fertilizer at ¼ strength. When the plants are about 2 inches high, transplant to a larger container.

Cosmos is a sun loving annual; it will not produce as many blooms if grown in shade. Choose a location that receives at least a half day of sunlight. Cosmos is not a heavy feeder; excess fertilization will cause it to produce leaf growth at the expense of flower production. A 5-10-5 fertilizer may be worked into the soil prior to planting or four to six weeks after sowing seeds.

Cosmos needs only basic care to provide a colorful abundance of blooms all summer long. Gardeners in many parts of the country are becoming increasingly concerned about water conservation. Drought tolerant plants are needed in areas where there is little rainfall. Cosmos is drought tolerant, providing abundant blooms with less water than other annuals. A mulch will help conserve moisture, retard weed growth and give a neat appearance to the garden bed. Use a two to three inch layer of organic mulch such as dried grass, peat moss, shredded bark or wood chips. Mulch after weeding and watering.

Cosmos is generally a trouble-free annual seldom falling prey to diseases and pests. The best offense is a good defense in maintaining healthy plants. In summer and fall, many insects lay eggs on perennial weeds. These eggs can overwinter and emerge in the spring to newly planted seedlings. Keep the garden beds weeded and free of plant refuse. Fungal diseases tend to spread under wet conditions. Avoid overhead watering as it wets the foliage. Always water the soil, not the plant leaves.

NATIONAL GARDEN BUREAU written by Diane Windisch edited by staff.

DAYLILIES OF TOMORROW

featuring our own new hybrids

Visit one of the finest Daylily collections in Southern California

CREATE YOUR OWN TROPICAL LOOKING GARDEN

Easy care, full range of color. Blooms May thru December (can also be grown in containers)

DON & MARY HARDGROVE

1656 N. Second St. (between Greenfield & Pepper Dr.) El Cajon • 447-4922

Open Tuesday - Sunday 10 am - 5 pm

TROPICAL CACTUS

We're specialists in Flowering Jungle Cacti—Epiphyllums/Rhipsalis/Hoyas + Haworthias. Over 178+ COLOR photos in 76-page 1991-92 plant/and cactus bookshop catalogs. All for only $2.00. ($4.00 for foreign requests) Hurry! Order today:

RAINBOW GARDENS Visa/Mastercard Welcome

1444 E. Taylor St. We ship worldwide!

Vista, CA 92084 12th year in business

McDANIEL'S MINIATURE ROSES

BUSH • TREE • CLIMBER • HANGING BASKET

HARDY AND EVERBLOOMING

SHIPPED ALL YEAR

7523 ZEMCO ST.

LEMON GROVE, CA 91945

Please Phone (619) 469-4669

NEW PERENNIAL FOR SOUTHERN CALIFORNIA

Betty Newton

SOUTHERN CALIFORNIA FLOWER lovers have a wonderful new perennial to add to the beauty of their gardens. Botanically *Hypoestes aristata*, we call it Lavender Cloud.

This lavender-flowering plant is especially desirable because it blooms in fall, late October and much of November.

The basic reference work *Hortus Third* calls *Hypoestes aristata* a "branched herb, to 3 feet; leaves 2-3 inches long, upper leaves shorter; flower heads axillary, of many 1-flowered spikelets, corolla rose-purple, 1 inch long, lower lip curled, upper erect" from South Africa. The dark green, deeply veined leaves grow opposite each other.

Photo by Betty Newton

We call it beautiful. There are so many flowers each branch can make a small bouquet. It certainly branches, as Hortus says, and is probably an herb in that it does not develop hard wood, but it grows taller than 3 feet here.

My first plants came from the Vista garden of artist Niki Threlkeld when she lived here. She didn't know what the plant was, but had the good sense to pot up seedlings and share them.

The Zoo thought it was a baleria, and there is a resemblance. But as with most botanical detective stories, the flowers finally gave it away. You will notice the resemblance to the indoor plant, freckle face. That is well enough known to be in Sunset's *New Western Garden Book* and once you have the genus name from there it was easy to find the second, or species name, in Hortus. Sleuthing time in entirety? No more than two years.

CULTURE: Lavender Cloud is adaptable and easy to care for.

At Quail Gardens on the coast at Encinitas, it grows in both shade and sun. Of course it is thinner and has fewer flowers in shade.

Twenty miles from the coast, at my house, on imported decomposed granite, the pretty perennial grows happily in full sun. The total water requirement is unknown because that particular border may be watered every other day in summer to meet the needs of some shallow-rooted annuals.

Cuyamaca College (in Rancho San Diego, even further inland) has a long row of this *hypoestes* on the west side of a lath house, in strong sun. *Hypoestes* will freeze in Dulzura.

At Judy Wigand's garden in San Marcos *Hypoestes aristata* was five feet high last fall. I cut mine back in July to about thirty inches to avoid plants' falling over when they bloom.

From seed to maturity seems to take two years.

A few months after flowers finally fade, some leaves will yellow and the many flower heads turn to seed. About March you can harvest the seed and cut the now-less-than-attractive plants down twelve to eighteen inches from the ground. If you leave seeds, seedlings will often sprout around the parent plant.

Care is easy and exposure possibilities wide. But the plant is still rare. I suspect since it propagates so easily, resourceful nursery owners will offer plants for sale this spring. An eight-month plant, well filled out and 12 to 16 inches high, is undoubtedly worth three-and a half or four dollars. It has great potential.

Lavender Cloud is in the *Acanthacaea* family. The leaves are a rich green — especially with a little slow-release fertilizer.

I use five large plants of Lavender Cloud in a sixty-foot mixed border. Judy Wigand featured her huge plant in front of an evergreen tree. The lavender invites the company of flowers like the purple iris "Eleanor Roosevelt" and soft pink or yellow roses.

May we share seeds with you? Send a stamped, self-addressed envelope to Betty Newton, Foothills Adult Education Center, 1550 Melody Lane, El Cajon, CA 92020. Let's enjoy this beautiful new perennial.

Betty Newton teaches for Grossmont Adult School, consults on landscaping and writes a column for the San Diego Union.

BROMELIAD STUDY GROUP OF BALBOA PARK

Learn How to Grow Beautiful Bromeliads

MEETINGS: 7:30 PM • 2nd Tuesday of Each Month

Casa del Prado • Room 104 • Balboa Park

Visitors and New Members are Welcome

Fennel: New Specialty Vegetable

James E. Simon

Excerpted from The Herb, Spice and Medicinal Plant Digest
Winter 1989

THE FENNEL *(Foeniculum vulgare* var. *azoricumm* (Mill. Thell.) raised as a vegetable is morphologically different from the fennel used for seed (being a different subspecies), having much larger leaf stalks. Vegetable fennel is know as Florence or finnochio fennel. The plant appears to be marketed as anise because of a similarity in the chemicals contributing to the aroma of the essential oils and because of the greater name recognition of anise by consumers.

Vegetable fennel is a perennial, but grown as an annual. The plant is best suited to well drained soils and a moderate climate. Optimum soil temperature for seed germination is between 60 and 65°F, although seed will germinate at temperatures as low as 45°F. Yields as high as 2,000 pounds per acre can be achieved under good growth conditions. The plant requires from 100 to 115 days to mature, although accessing maturity is sometimes difficult due to the thickened leaf stalk at the base of the plant that will continue to grow until flowering occurs.

As a leafy, green vegetable, fennel has a high rate of respiration and great care must be taken during harvesting, grading and packing to ensure that a high quality fresh pack is achieved.(maintain under refrigeration at 32 to 35°F). Harvesting, cleaning, trimming and packaging are generally done by hand. For best quality, the foliage should be dark green and fresh in appearance. The bulb (enlarged base of the leaf stalk) should be firm, a light greenish white color, and free of any insect damage or discolorations. The plant is retailed individually, either wrapped in plastic or simply displayed like celery.

The aroma and flavor of fresh fennel are predominantly due to the principal constituent, anethole. Great variability (in growth and aroma) exist in the commercially available cultivars so selecting a type that is acceptable in the market is important.

perennial adventure
Unusual plants for the garden. Open Saturdays or by appointment.
Christine S. Wotruba
10548 Anaheim Drive
La Mesa, CA 91941
(619)660-9631

YOU ARE INVITED TO SUBSCRIBE TO....
California GARDEN
MAGAZINE Since 1909
The perfect gift to a friend, relative or neighbor!
1 YEAR SUBSCRIPTION $ 7.00
2 YEAR SUBSCRIPTION $13.00
(Add $3.00 per year for postage to foreign destinations)
OR BECOME A MEMBER OF....
SAN DIEGO FLORAL ASSOCIATION
INDIVIDUAL/FAMILY
MEMBERSHIP.....$10.00
Magazine included
(Please PRINT)
Name
Address
City State Zip
Phone
SAN DIEGO FLORAL ASSOCIATION
Casa del Prado, Balboa Park, San Diego, CA 92101-1619

A SNAP TO GROW

Kathleen Smith

SNAP BEANS ARE ONE of the easiest garden vegetables to grow. They not only offer the gardener an adventure in flavor, but provide many different sizes and types as well. Colors include purple, yellow and the traditional green variety. Flavors range from very sweet to a rich-woody taste. Some grow in a bush form for a first of the season harvest, to pole varieties for easy picking.

Soil for beans should be rich and loose, since the first leaf needs to be able to sprout easily. Plant bush beans in well moistened soil ½ - 2" deep approximately 4 - 6" apart in rows 2 feet apart. Pole beans are best planted just as deep, placed the same distance apart, but with much needed support provided, such as a fence, poles, trellises or cages. Don't water again until seeds have sprouted. This will prevent the seed from rotting. Once the beans are up and growing, never let them dry out completely, being sure to keep them moist but not soggy.

Beans are legumes, which draw nitrogen from the atmosphere with help from bacteria in the soil. This means fertilizing is not as important as providing a good organic soil, one rich in humus. Adding a legume incolant, a bacteria, will help with this important nitrogen process.

Nurseries and seed catalogs provide an interesting variety of beans. Shepherd's Garden Seeds, 30 Irene Street, Torrington, CT 06790, and Vermont Bean Seed Co., Garden Lane, Fair Haven, VT 05743, have some of the nicest selections. They include Vernandon, a French filet type, a slender bean about 6" long that produces in 50 days. Royal Burgundy Purple Pod is a wonderful purple bush-bean easily seen on the plant. It cooks up green in two to three minutes and has a rich woody flavor. Yellow beans, such as the Roc d' Or, are great for contrast. They are long, round and somewhat buttery.

Seeds Blum, Idaho City Stage, Boise, ID 83706, carries a Purple yardlong that actually stays purple after being cooked.

Many people enjoy Roma Italian varieties; flat, meaty and very tasty flavored with garlic and tomatoes. Kentucky Wonder Bean, an all time favorite, is bright green, very crisp and found in almost every backyard garden. Another very popular variety of bean, and my favorite, is Blue Lake, a round tender sweet bean, which is very prolific. These garden delights are commonly found in most nurseries. New on the market is Kentucky Blue, a 1991 AAS Winner. This new Pole Bean is a cross between Kentucky Wonder, with its disease resistance, and Blue Lake, which has the Wonder round shape and sweet flavor. A nice addition to our selections.

Snap beans enjoy a long planting season, sown from march to August. They are best harvested when young so new pods will continue to set. If you are fortunate to have a large harvest, beans can be easily be frozen or canned for future enjoyment.

KATHLEEN SMITH is a Master Gardener with the University of California Cooperative Extension and is currently enrolled in the Horticulture Department at Cuyamaca College.

CLASSIC GARDENS
Landscape Design & Construction
We are offering a complete service in landscape design and installation.
(619) 459-0316
License no. 471422
ENTER A WORLD OF OUTDOOR ENJOYMENT

SWEET PEAS
like these are just one of the old-fashioned flowers featured in our 112-page illustrated seed catalog. In addition, we offer you the best selection of gourmet quality vegetable and culinary herbs chosen for outstanding flavor and easy culture including:
• Fine French Filet Beans
• Container Gardens
• Baby Vegetables
• Italian Scented Basils
• Edible Flowers
• Everlasting Flowers
• Fragrant Flowers
• French Tomatoes
• Colorful Lettuces
• Heirloom Squashes
• French Herbs
Please send $1.00 for our catalog sent to you via First Class Mail.
Shepherd's Garden Seeds
Dept. OOCG
6116 Highway 9
Felton, California 95018
408-335-5311

ENVIRONMENTAL HORTICULTURE PUMPS BILLIONS INTO STATE'S ECONOMY

Forrest Cress

THERE IS MUCH MORE THAN MEETS the eye to California's irrigated landscapes. They are products of a huge industry - environmental horticulture - that pumps billions of dollars annually directly into the state's economy.

Statewide, the industry has an annual sales and services value of more than $6.5 billion, perhaps as much as $10 billion, and it employs some 100,000 Californians.

These findings are based on a study done last year, and "the study has turned out to be a very timely one in light of the water shortage facing the state and the horticulture industry. Water is the industry's number one concern," notes the project coordinators Victor A. Gibeault, Dennis R. Pittenger and Stephen T. Cockerham of UC Riverside.

Contrary to what many people think, shutting off all the of the water to California's irrigated landscapes - home lawns, golf courses, parks, freeway plantings, school grounds, athletic fields, whatever - would not significantly ease the statewide water shortage. No more than 4% of this state's total water use goes to irrigating landscapes, according to calculations made from state and water district actual use figures and projections.

Policy decisions that lead to a reduction in water available to irrigate landscapes could make a significant impact on this industry and ultimately lead to employment cutbacks according to the project coordinators. By definition, they explain, California's environmental horticulture industry encompasses all firms and people involved in plant production, their wholesale and retail sales, landscape design and maintenance, and businesses that provide them with their equipment and materials.

Here are some of the findings from the study of the industry: Total product value of California turfgrass sod, floriculture and nursery plant production totalled more than $1.4 billion in 1987, the latest figures available. Wages for the production of ornamental plants, flowers, seeds and bulbs topped $427 million, and an average of 28,834 people were employed in this segment of this industry the same year.

The use of ornamental plants in the landscape had an even larger economic impact. This component of environmental horticulture includes services such as retail sales, design, installation and maintenance activities. Their total is $5.3 billion. Gross receipts in 1987 from retail sales totalled more than $1.181 billion. Landscape design brought in more than $262 million; installation and maintenance work grossed about $2 billion. Total wages for these businesses plus those for Cal Trans, state parks and recreation and city and county district parks topped $1.5 billion. These wages went to some 75,000 employees.

Humankind places many values on landscaping, from aesthetic pleasure and recreational uses to soil erosion and wind control. This nation's researchers, with the horticultural industry's support, are now taking a closer look at the role of horticulture in human wellbeing and social development. Expressed from a commercial perspective, the potential is for horticulture/gardening/people-plant interaction to be to human wellbeing in the 1990's what sports/physical fitness/health-exercise was in the 1980's.

FORREST CRESS is a staff writer at the University of California, Cooperative Extension, Riverside.

John Goodpasture Horticulturist

LANDSCAPE CARE

MAINTENANCE • TREE SERVICE
LAWN RENOVATION • SOD & SEED
PLANTING • SPRINKLER SYSTEMS

Call John: (619) 542-0469

"No Job Too Large Or Too Small"

TOTE BAGS PROVE POPULAR

TOTE BAGS and aprons with the bright new SDFA design were a hit at Christmas on the Prado and are a great present for yourself or someone else any time. They are excellent quality and reasonably priced at only $8 each. If you can't make it in to the office, or just hate to go to the post office, we can mail them for an additional $2.50 each postage and handling. (USA)

FLORAL TOTE BAGS AND APRONS

[ ] SDFA Tote Bag #_____ $_____
[ ] SDFA Apron #_____ $_____
Total _____ _____

NAME _____
ADDRESS _____
CITY, STATE ZIP _____

Send orders to: SDFA, Casa del Prado, Balboa Park, San Diego, CA 92101-1619

SAN DIEGO TOPIARY CONFERENCE

TOPIARIES OF EVERY SIZE and shape will be showcased at the San Diego Zoo during the "Animals in the Garden" Topiary Festival May 23-27, 1991.

This national Conference on the art of topiary, the shaping and training of plants into figures and geometric forms, will consist of a two-day workshop May 23-24, and a five-day topiary exhibition May 23-27, co-sponsored by the American Ivy Society and the Zoological Society of San Diego.

The five-day topiary exhibit will feature life-size as well as tabletop creations of animals, birds and other favorite figures. This fanciful display will be open to all zoo visitors from May 23rd through Memorial Day.

Deborah Reich, co-author of the **Complete Book of Topiary**; Kristin Pategas from Walt Disney World; Irene Roberts, creator of the hippo topiaries in Horton Plaza and Mia Hardcastle whose Topiary, Inc. were used in the recent movie **Edward Scissorhands**, are among those who have been scheduled by Conference Director Patricia Hammer, President, American Ivy Society.

A sculptor with a green thumb, the topiary artist uses plants and a touch of whimsy to shape animals and other figures. Topiaries may be large or small, may fill a garden or decorate a tabletop.

Over the centuries, topiary has been variously described as "the perfection of gardening" and "a monument to perverted taste." Topiary was invented by the ancient Romans in the first century, B.C., and was fashionable on estates of the wealthy. Topiary flourished in castles of the Middle Ages, blossomed during the Italian Renaissance, took root in Holland, England and France in the 17th Century. In the New World, George Washington was among early topiary fanciers and practitioners.

You are in for a treat if you have not yet seen the Zoo's new life-size botanical animal collection. A rhino, a giraffe, a lion, elephants, flamingos, gorillas, koalas and other leafy critters have been planted in attractive settings adjacent to their respective animal enclosures. These topiaries were created by horticulturist Charles Coburn and his staff, with the assistance of Patricia Hammer, topiary specialist at Longwood gardens in Pennsylvania.

When completed, the Zoo's topiary collection will rival those of the leading display gardens in other parts of the country.

A brochure containing the program schedule and registration information is available in the San Diego Floral Association Library, Room 105, Casa del Prado, Balboa Park or from the San Diego Zoo, P.O. Box 551, San Diego, CA 92112. For further information contact Jeff Jouett or Georgeanne Irvine at 231-1515, ext. 9.

THE AMERICAN IVY SOCIETY is dedicated to promoting the use of ivy in the home and garden through research projects, display gardens and publications. Recommended reading: **The Complete Book Of Topiary** by Barbara Gallup and Deboraah Reich; Workman Publishing: New York, 1987.

Tiny Petals Nursery
FREE CATALOGUE—44 COLOR PICTURES
Includes 1990 roses: *IRRESISTIBLE, LITTLE CAROL, RUTH STALEY*, and more than 100 other great varieties.
SHIPPED UPS IN 4" POTS
Discounts on orders of ten or more.
TINY PETALS MINIATURE ROSE NURSERY
489 Minot Ave.
Chula Vista, CA 91910
Tel: 1-619-422-0385

THE OCOTILLO

David L. Epple

The Ocotillo (pronounced oh-ko-tee'-yo) is one of the desert plants which gives character to the arid lands of the Southwestern United States and the Mexican states of Chihuahua, Sonora, Baja California, Coahuila, Nuevo Leon, Durango, Zacatecas and San Luis Potosi. There are 11 species of this plant, with perhaps the most unusual being the "Boojum Tree."

I, for one, have a hard time with the proper placement of this plant within the Fouquieriaceae family. All of its distant relatives are bushes and in many cases, trees. The botanical community might well do itself a favor and move it over to the Polemoniaceae family.

Within the United States, the plant is perhaps the most widespread of desert plants. It begins in the Rio Grande valley of Texas. It is also found in the Trans-Pecos region and in the Edwards Plateau area of Texas. In New Mexico it is almost exclusively found in the southern part of the state. It is widespread in Arizona, found state-wide below 5,000 feet in elevation. In California, you'll find Ocotillo in the extreme southwestern Mojave desert and the Colorado desert. I have also observed small, scattered colonies of Ocotillo in southern Nevada.

There are a number of common names given to the plant. Some call it Coach-whip, Vine-cactus and Jacob's staff.

During most of the year, the plant looks much like a dead bunch of sticks, towering sometimes 30 feet above the desert floor. But during the summer months, when the plant receives rain, a tight cluster of red flowers appears at the tip of each branch and the branches are covered with small green leaves. These leaves wither when the soil dries, and appear again when the plant receives moisture. I have observed the plant go through this cycle as many as seven times in a single summer and early fall!

One of the first written accounts of Ocotillo was made by Frederick Wislizenus. In his field notes of "A Tour to Northern Mexico," I found this interesting paragraph which I would like to share with you.

"April 27, 1847. Marched 20 miles today. In the chaparral I met with different species of cacti in blossom: a small odd tree with green thorns (Koeberlinia) and also the purple-flowered Ocotillo. I had seen this plant in the Jornada del Muerto, above El Paso, but not in blossom. As it is one of the most common and obnoxious plants in the chaparrals, I will give its description. It grows in long branchless stalks, but a dozen of them standing together, covered all over with thorns, with few and quite small leaves and at the upper end of the stalk a cluster of purple flowers. They grow generally from 10 to 20 feet high; sometimes I have seen them at a height of 30 feet. The Mexicans use them sometimes for hedges."

Stems of Ocotillo may be placed in suggestively moist soil and they will re-root themselves. This can take some time. A friend of mine gave me a couple of cuttings of a rare white-flowered Ocotillo. I planted them in a bed inside our greenhouse and babied them to death. It took two years before they finally sprouted new roots! (Desert plants can and will teach you patience!)

The plant is widely used for fencing and for the support of thatched roofs of ramadas. The flowers of the plant are edible.

The Apache Indians of southeast Arizona used to travel regularly to the Rio Grande Valley of New Mexico, to a place called Hot Springs (today called Truth Or Consequences). This was one long hike! Many of the Indians I talked to told me this story:

"We gathered the flowers of the Ocotillo and carried them along with us. When we would come upon a stand of fresh water, we would dam up the flow of water and throw the crushed leaves of the plant into the water. We stirred it up, and allowed it to sit for a while. Then we would bathe our feet in the water. It greatly relieved the fatigue."

I have tried this Indian remedy on several occasions, and it works!

David L. Epple is President of Arizona Cactus and Succulent Research, Bisbee, Arizona 85603.

SUN HARBOR FUCHSIA SOCIETY

Member National Fuchsia Society
Meets 4th Wednesday Each Month
7:00 PM, Rm 101, Casa del Prado, Balboa Park
Plant Table • Refreshments • Friends • Speakers
VISITORS & NEW MEMBERS WELCOME!

2600 Sarver Lane
(619) 744-0600
Sarver Nursery Co.
of California
Azaleas and Cannas our Specialty
Rosalind E. Sarver, owner
P.O. Box 905
San Marcos, CA 92079

FLOWER DEVELOPMENTS - CARNATIONS AND ALSTROEMERIA

THE WORK OF DR. LEONARD CARRIER

Lucy Warren

HOME GARDENERS ARE SELDOM AWARE of the contributions made by the professionals who research and develop improved plants. The ideal climate of San Diego County has attracted excellent scientists and growers who quietly work at perfecting plants for cut flowers and home growing. Dr. Leonard Carrier was one of these scientists whose work will benefit home gardeners and professional growers for many years to come.

Dr. Leonard Carrier

Born in 1914, Dr. Carrier always loved flowers. It wasn't until several years into his college career, when he transferred to Cornell University, that he decided to devote his career to floriculture. Interrupted by military service in World War II, he continued to study at Cornell on his return. His wife, Lucy Carrier, noted that after the war hard goods supplies were very short. But, because Leonard was studying the effects of freezing on rose plants for his thesis, there was never a shortage of freezers available for purchase in Ithaca. He successfully completed his doctorate in 1951 in plant physiology and hybridizing and was immediately recruited to teach at the University of California at Davis where he taught floriculture and nursery management. After two years of high prestige and low pay, Dr. Carrier began seeking other career options.

In 1953, beginning at the San Ysidro border, he and a friend began working their way northward, taking soil samples and checking water and climate conditions. When they reached Encinitas, Dr. Carrier determined they had reached the ideal spot to grow carnations. Here he joined a host of nursery pioneers. These enthusiastic, highly experienced nurserymen envisioned

Photo by Lucy Warren

a new national market for their plants and flowers aided by refrigerated transportation, transcontinental highways and air transport. Developments in the plastics industry enabled nurseries to build inexpensive and flexible greenhouses which did not require acres of costly glass and steel framing.

He soon settled with his family on a four acre property. When Leonard Carrier began his business of breeding and growing, he was one of the first carnation breeders in the United States, and one of only four or five such specialists in the world. He grew carnations, and later chrysanthemums, commercially until 1968, when he sold most of his greenhouses to concentrate on breeding full time.

From the beginning, he set out to develop disease resistant varieties. While most of us may have only passing awareness of fusarium or root rot, these two diseases were the bane of the carnation industry. Dr. Carrier successfully patented fifteen new varieties, all disease resistant, stronger and healthier plants, now available for commercial growers.

Most recently Dr. Carrier turned his attention to alstroemeria and has concentrated on further developing these popular cut flowers as potted plants. They are favored by commercial flower growers because of their beauty and long lasting cut life. Again, his patient scientific methods met with excellent success in extending the range of variety of this Peruvian native. Long known in the plant world and referred to in Victorian tomes, alstroemeria is a relative newcomer to American consciousness. For many years commercial plants sent to the United States from Holland were sterile, thus protecting the Dutch flower industry.

Now that stock is available, what are some of the characteristics he sought to develop? One direction

involved the size of the plant. In its natural state, the alstroemeria is a somewhat gangly plant, while this does not affect the cut flower industry, home gardeners, especially container gardeners, could better appreciate a plant form which looks lush and compact in a pot. Then there is the size of the flower. With careful breeding the blossoms can be fully two inches across.

And, don't forget the color. In his breeding house there is a riot of color, from purples and lavenders to brilliant reds, soft pinks and peaches, lovely whites with multi highlights. For some the familiar yellow and brown speckles dominate, in others they are barely noticeable. He was recently working on developing an all yellow one. The breeding house is sealed, not only from the winter cold, but also to assure that wayward bees do not disrupt the carefully recorded hand pollination which implements these developments.

The alstroemeria need not be a hothouse plant in San Diego. Behind the breeding house were plants in common soil being tested for the climate. They all seemed to be thriving, lush and green, despite our early winter freeze. Frost may burn the foliage to the ground, but in Southern California it will not usually affect the roots and may lead to improved spring bloom. Alstroemeria are quite satisfactory plants in a home garden with a long bloom cycle. They prefer cool soil temperatures and may need protection from summer heat. Some varieties go dormant for several months and look quite dead, but left undisturbed, they should once again flourish after a rest. They appreciate a rich, well drained soil and it is better to let them dry out between watering. In the greenhouse they are watered twice a week. They are heavy feeders and appreciate extra nutrients. It's also best to check when you water, for their lush green foliage can also be popular with aphids.

Pan American Seed Company has contracted to grow these latest plants which Dr. Carrier developed for seeds and rootstock to be available for commercial growers.

Dr. Leonard Carrier died suddenly on January 4th, 1991. There were many projects which he intended to complete but didn't have the opportunity. He led a full and productive life and helped to make this world a little better in his own way.

LUCY WARREN - Assistant Editor of California Garden and a garden enthusiast.

SOME SOURCES FOR FURTHER INFORMATION:
Melvin, Robert, Profiles in Flowers, Paul Ecke Ranch Press, 1989.
Sunset Magazine, March, 1990, pp. 98-99.

10th ANNIVERSARY CELEBRATION
La Jolla Chapter, Ohara School of Ikebana
La Jolla Marriott Hotel SATURDAY, MAY 4th 11 a.m.
Luncheon and Japanese flower arranging demonstration by
Sub Grand Master Mr. Mutsuo Tomita, Director of the
Ohara School in North America. Tickets: 487-9465, 456-0559

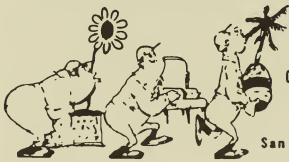
Wanted

For Basket Classes
We can use your prunings

Grapevine
Hops Vine
Kiwi Vine
Ivy Vine
Virginia Creeper
Cedar Root
Weeping Birch
Weeping Willow
Bulrush
Timber & Black Bamboo
and more!

Call for Details
619/232-5762
619/298-5182

MOVING?



Send your change of address to ...
California Garden
Casa del Prado
Balboa Park
San Diego, CA 92101-1619

SEED POTATOES
OVER 100 ORGANICALLY GROWN HEIRLOOM, NEW & FINGERLING CULTIVARS WITH VARIOUS SKIN & FLESH COLORS...
UNIQUE CATALOG • $1.00 REFUNDABLE
RONNIGER'S SEED POTATOES
STAR ROUTE H • MOYIE SPRINGS, ID 83845

Gault, S. Millar & Synge, Patrick M.
THE DICTIONARY OF ROSES IN COLOR
Rainbow Reference Books Limited, 1985, 191 pages, 12" x 9¼", softcover, 8.95 pounds.

There is substantial information on the history of roses, their cultivation, pruning and training, propagation, pests and diseases. Of particular interest is what plants to plant with roses for complimentary color and form. The book was published in collaboration with The Royal Horticulture Society and the Royal National Rose Society.

The dictionary is preceded by splendid color photographs which are alphabetical by type. If we look up "Mister Lincoln" in this dictionary, we find out it is a Hybrid Tea, dark crimson, 4 feet, raised in 1964 by Swim and Weeks USA. Its parentage is "Chrysler Imperial" X "Charles Mallerin". It is very fragrant, a useful cultivar for large beds, and the dark crimson-red blooms are well formed, of good size and open loosely as they age. It was an AARS, 1965. Liable to mildew in some areas. A picture is plate 336 on page 63.

Eight hundred roses are described and more than ninety color photos provided a good overview of reference for rose enthusiasts.

* * *

Phillips, Roger & Rix, Martyn
ROSES
Random House, Inc.,1988, 224 pages, 11½" x 8½", softcover, $19.95.

Are there roses without names lurking in your garden? Ever wondered about the parentage of your favorite rose? The alphabetical index at the back of the book will provide quick answers. Also, there is information on the history of roses and their cultivation.

There are photographs of the 1,400 most commonly grown roses in gardens. They show a bud, open flowers and leaves. They are arranged by groups, starting with the species and sample hybrids. The parentage is explained on the same page as the color photographs. For example, under Hybrid Teas, "Double Delight" was raised by Swim and Ellis and introduced by Armstrong in 1977. Good scent. Upright growth to 1.3M. Susceptible to mildew. Parentage: "Granada" X "Garden Party".

Wild roses, old roses, Hybrid perpetuals, climbers and ramblers, rugosas, sweetbriars, ground cover roses, English roses, hybrid teas, floribundas and miniature roses are included in this colorful book.

* * *

California Garden Clubs, Inc.
CALIFORNIA GARDEN CLUBS, INC., YEARBOOK, MANUAL AND ROSTER
California garden Clubs, Inc., 1990, 112 pages, 9½" x 6½", softcover, $5.00 plus $1.50 mailing costs.

Many gardeners are solitary souls who communicate with themselves while working in the peace of their gardens. They find self-fulfillment in the process of creating the vision in their mind's eye.

However, many gardeners also like to communicate with one another, and California Garden Clubs, Inc. provides the basic structure for this intercourse. The organization is a "non-profit association of garden clubs devoted to the development of all phases of gardening, the betterment and beautification of the community, and the protection and conservation of our natural resources."

Garden Club members most likely know about the organization, but those solitary souls may want to look at the California Garden Clubs Inc. Yearbook in the San Diego Floral Library to find out about their activities. After all, as is their motto: "For Everything There Is A Season".

* * *

Coleman, Rona & Pepper, Sylvia
THE ENCYCLOPEDIA OF FLOWER ARRANGING
Wellfleet Press, 1988, 254 pages, 13½" x 9¾", hardcover.

Divided somewhat evenly between flower arranging and pressed flower craft, this book covers practically everything one needs to know for home decoration.

Oversized photographs guide the reader through the equipment and techniques, basic principals, influences of color and design.

The intent is to make flower arranging and flower pressing easy and enjoyable experiences. It teaches by example.

There is lots of good advice. For instance, when using oasis in small-necked containers, use a round piece in a square neck and a square piece in a round neck - the shape keeps the oasis wedged in place.

THE ENCYCLOPEDIA OF FLOWER ARRANGING is a visual delight.

Antonelli Brothers
TUBEROUS BEGONIAS
2545 Capitola Road
Santa Cruz, California 95062
36-page Color Catalog $1.00

Martin, Laura C.
THE WILDFLOWER MEADOW BOOK, A GARDENER'S GUIDE
The Globe Pequot Press, 1990, 2nd edition, 320 pages, 7" x 9", softcover, $16.95.

The first edition was reviewed by barbara S. Jones in the January-February issue of **California Garden.** This second edition has updated information and a new section on tips by the experts.

Anyone interested in native plants, wildflower meadows or naturalized landscaping will find this comprehensive book an excellent resource. The book was given to the San Diego Floral Association library by Nancy Cottingham.

* * *

Brooklyn Botanic Garden Record
DYES FROM NATURE
Brooklyn Botanic Garden, Inc., 1990, 95 pages, softcover, published quarterly, subscription $25.00.

What a fascinating subject! Colorists, chemists, crafts enthusiasts and gardeners will gain insight into how our ancestors dyed cotton, linen, mohair and silk fibers. Gardeners will be interested to learn which plants provide various colors.

Twenty-eight articles on different subjects such as Mushrooms for Color, Dyeing with Weeds, Wild Plant Dyes, Flowers for Dyeing, Making a Tennessee Heritage Sampler Quilt, A Blue Future of Mexican Indigo and New Ways to Use Eucalypt Dyes are written by experts in their field.

Learn about Getting Started with Dyeing. The bibliography provides additional reference material available.

* * *

Harbour, Elizabeth
A GARDENER'S ALPHABET
Viking Penguin, Inc., 26 pages, 4½" x 6", hardcover, U.S. $7.95, Can. $9.95.

The twenty-six delightful miniature watercolors are described with thoughtful prose. For example, "Delicate sweet peas climb bean pole like the runners beans, their colours shimmering in the pale light of the summer's evening; they could be easily mistaken for a gathering of fluttering butterflies. The earth smells sweet where the gardener has been watering."

This charming book is the perfect choice for that special gift for a friend, a child, or for cheering up an unhappy soul.

Withner, Carl L.
THE CATTLEYAS AND THEIR RELATIVES VOLUME II. THE LAELIAS
Timber Press, 1990, 154 pages, 7⅜" x 10⅜", hardcover, $31.95 plus $3.00 shipping for the first book, $2.00 for each additional.

Laelias have become generally known in the last decade, but even so, not much has been written about them.

Currently fifty-nine species have been identified in the genus Laelias. Each one is described in detail with color photographs. There are selected references for additional information.

It is an attractive book and a wonderful resource for Cattleyas and their relatives. We can look forward to the remaining four books in this series.

* * *

Bisgrove, Richard
NATIONAL TRUST BOOK OF THE ENGLISH GARDEN
Viking Penguin, Inc., 326 pages, 7½" x 10", hardcover, USA $29.95, Can. $35.00.

The book is a comprehensive study of the art of English gardening from medieval times, through the Tudor and Stuart garden era, onward to the English landscape gardens, Victorian gardens and finally modern gardens.

As stated by the author, the intent is to "provide a general description of English garden history, sufficient in itself for those only with a general interest in the subject, and to offer, in footnotes and bibliography, a link to the wider mass of literature for those who wish to follow any specialist topic in greater detail".

An obviously monumental tasks, the author has been successful in charting the course of English gardening. The text is so interesting, one wishes it could be used for a quality documentary film.

* * *

Waters, George & Harlow, Nora - co-editors
THE PACIFIC HORTICULTURE BOOK OF WESTERN GARDENING
David R. Godine, Publisher, 1990
312 p, over 100 color photos; 40 b&w drawings
8½" x 11", hardcover, $50 ($3 shipping/handling)

Be forewarned that you will willingly spend many delightful and thoughtful hours with this collection. Although it includes magnificent photos, this group of excellent articles from the past decade of *Pacific Horticulture* is not an ordinary coffee table book. One is quickly caught up in some of the finest and most fascinating garden writing recently published. While it includes cutting edge information regarding the practical aspects of gardening, it also feeds the soul with aesthetic and philosophical topics. It is not intended to

be a comprehensive volume on the how-tos of gardening, but covers individual topics in-depth.

The articles are grouped into sections which include: climate and environmental characteristics of Western gardens, an overview of Western gardens and garden design, plants for western gardens, and gardening techniques. I had some concern that the information would be more appropriate for Northern California gardeners. This is true for only a small portion of the writing. Southern California gardeners will benefit greatly by having this treasure in their library. **This Book was reviewed by Lucy Warren.**

* * *

Denckla, Tanya
GARDENING AT A GLANCE
Wood Angel Publishing, 1991
272 p, 8½" x 11", softcover, $22.95 (add $3 shipping/handling)

This gardener friendly book is subtitled, "The Organic Gardener's Handbook on Vegetables, Fruits, Nuts & Herbs" and includes easily accessible, comprehensive information on 62 specific species.

Frustrated with having to cull material from a wide variety of sources, the author has done and excellent job of compiling the information specific to each plant from proper growing conditions and seed starting to storage of the harvest. Vital statistics, varieties, pests, diseases, harvest, storage, companion planting and other growing notes are presented in two concise, information packed pages for each plant. Plant destructive agents such as diseases and insect pests are given their own section, with organic means of controlling them.

This down-to-earth, no nonsense guide is sure to be one of the references you reach for first, year after year. **This Book was reviewed by Lucy Warren.**

* * *

Epple, David L.
ON THE DESERT
58 pages, text, illustrations
$6.00 from Tortilla Press, 1990

This intriguing collection of short pieces can be enjoyed in many ways. Here is the lore and language of the American deserts, evoking the sights, sounds and smells of these regions in prose which, though informal and at times a little unstructured, allows the reader to share in the author's work as founder and guiding hand of the Arizona Cactus & Research Center in Bisbee, Arizona. David Epple is clearly a personality who cannot help but project himself into his writing, so there is a strong autobiographical feeling in his book and his readers can empathize with his philosophy. His love affair with the desert, its people and its flora and fauna has lasted many years. He is knowledgeable about such things as cooking with tumbleweed (recipes given) how much water is required to produce one serving of various foods - tomatoes 3 gallons, steak 2,607 gallons, margarine 92 gallons - and the choice of suitable place names for new developments. On page one there is a lyrical two-sentence description of a sunrise, and pages 11-20 give much advice on desert gardening; in addition there are some hilarious anecdotes culled from the history of the area. This little book is likely to entertain, enrich and instruct, and I wish it could have been twice as long. **This Book was reviewed by Elsie Topham.**

* * *

PUBLISHERS

Brooklyn Botanic Garden, Inc.
1000 Washington Ave.
Brooklyn, NY 11225

* * *

California Garden Clubs, Inc.
Yearbook Chairman
16592 Palm Ave.
Anderson, CA 96007

* * *

David R. Godine, Publishers, Inc.
Horticultural Hall
300 Massachusetts Avenue
Boston, Massachusetts 02115

* * *

Globe Pequot Press
138 West Main Street
Chester, CT 06412

* * *

Rainbow Reference Books Limited
40 Park Street
London WI

* * *

Random House, Inc.
201 East 50th Street
New York, N.Y. 10022

* * *

Timber Press, Inc.
9999 S.W. Wilshire
Portland, OR 97225

* * *

Viking Penguin Press, Inc.
40 West 23rd Street
New York, NY 10010

* * *

Wellfleet Press
110 Enterprise Avenue
Seacaucus, N.J. 07094

* * *

Wooden Angel Publishing
Wooden Angel Farm, Building 1A
P. O. Box 869
Franklin, WV 26807

DESCANSO – APRIL 16th

Helen Gagliardi

MORE THAN 60 ACRES of colorful flowers welcome each visitor to this beloved garden of E. Manchester Boddy, late editor of the Los Angeles Daily News.

On Tuesday, April 16, we can gaze upon fragrant lilacs blooming amid the shade of giant live oaks. Thousands of annuals and bulbs, including tulips, daffodils, Dutch iris and cornflowers will accent the garden for this annual Spring celebration. Beds of pansies, primroses, snapdragons and violas will line walkways as flowering succulents and fruit trees - crabapple, plum, peach and nectarine - abound. Visitors can also enjoy familiar garden attributes such as the iris garden, lilac collection and camellia forest.

Modern hybrid tea roses, winners of the All-American Rose Selections from the past four decades, and historical roses, some that date back to Roman times, will also be blooming.

Experience the flavor of the east in an authentic tea house set amid a Japanese garden, and admire the monthly art exhibit in the former mansion, now called Hospitality House. That's where we shall be served our very special luncheon - everyone was most pleased with the menu when we visited Descanso last June. A tram tour will make it comfortable and convenient to explore the extensive grounds.

There should be ample time for you to explore any area of special interest or to visit the lovely gift shop. The price, $30.50 includes everything: admission, tram ride, slide show, lecture, catered lunch and guided tour.

Depart 7:45 am from Balboa Park. Additional pick up at Red Lobster in La Mesa, La Jolla and Hadley's - per request. Send your check and completed form and prepare for a delightful day in a beautiful garden. Return about 6 p.m., just in time for our general meeting. Information 619/232-5762.

BUS TRIP, APRIL 16 - DESCANSO GARDENS
LUNCH INCLUDED - Mail with Check
$30.50 Members $32.50 Non-Members Payable to:
San Diego Floral Assn., Casa del Prado, Balboa Park
San Diego, CA 92101-1619

Name.....Phone.....

Address.....Zip.....

Pick-ups:

[ ] Red Lobster park and ride lot, Grossmont Ctr. La Mesa 7:15 a.m.
[ ] Balboa Park parking lot behind Organ Pavilion, 7:45 a.m.
[ ] La Jolla Village Square - Nobel Drive directly south of Beverly Hills Savings Bank - 8 a.m.
[ ] Hadley's route 5, Palomar Airport Rd, 8:20 a.m.

BUS TOUR OF EAST COUNTY - MARCH 15

LUCKY US! WE ARE INVITED to re-visit that unique home and palm garden of artist Dennis Torzeski. This is also an opportunity to view this lovely El Cajon neighborhood where each property has been enhanced by plantings of exotic palms - it's a unified approach to landscaping. Mr. Torzeski's talented hand plus his neighbors' cooperative work have produced a very special environment, where you will surely want to linger.

However there are other attractions planned for this visit to East County. The vast fields and cultivated acres of the Horticulture Dept. of Cuyamaca College will be toured as well. The administrative staff will guide us about the facility: greenhouse, sod farm, classrooms and flower fields. Our lunch will be one more item to enjoy at Cuyamaca.

The price - $18 for members includes lunch, tours and additional refreshments. Depart Balboa Park at 9:30 a.m., return about 5 p.m. Additional pick up at Red Lobster at 10 am. Call 619/232-5762 for more information.

BUS TRIP, MARCH 15
GARDENS OF EAST COUNTY
LUNCH INCLUDED - Mail With Check
$18 Members - $20 Non-Members Payable to:
San Diego Floral Assn., Casa del Prado, Balboa Park
San Diego, CA 92101-1619

Name.....Phone.....

Address.....Zip.....

Pick-ups:

[ ] Balboa Park parking lot behind Organ Pavilion at 9:30 a.m.
[ ] Red Lobster park and ride lot, La Mesa, at 10 a.m.

California GARDEN

NOW IS THE TIME...

A CULTURAL CALENDAR OF CARE FROM OUR AFFILIATES

Compiled by Penny Bunker

AFRICAN VIOLETS

Helen LaGamma

PROTECT plants from any sudden change in temperature - maintain 65-75 degrees.
PROVIDE 12 to 14 hours of indirect lighting daily.
WATER only when soil is dry when watering from the top.
POT up babies in 2 1/2" pots using a light, porous, sterile soil with good drainage.
PRACTICE preventive measures against insects and disease - have clean hands and clothing.
KEEP all areas clean of plant clutter. Use only clean sterile equipment. Have the area well ventilated.

* * *

BEGONIAS

Margaret Lee

PRUNE for shaping plants, and encourage more side growth; prune gradually, not more than 1/3 of plant at a time to avoid shock.
WATCH watering program especially if no rain. Keep plants moist but not wet.
START new cuttings, leaves or seeds.
REPOT if heavy and compact.
MULCH with a top dressing to make sure roots are covered.
SPRAY for insects and disease control.
FEED 1/4th strength of a good all-purpose plant food if feeding once a month; 1/2 strength if feeding twice a month.
CLEAN UP - clear all dried leaves, trim spent blooms and dead wood.

* * *

BONSAI

Dr. Herbert Markowitz

PROTECT from extreme cold - place in garage or under cover.
SEE that each tree has sufficient moisture for its seeds.
MOVE trees gradually into more sunlight to encourage healthy growth; take particular care of deciduous trees to avoid scorching of new leaves.
WATCH for aphids and other pests.
REPOT plants; shape to conform to containers or design.
WAIT until April to fertilize; can use high nitrogen for foliage growth; use high phosphorous fertilizers to set flowers and fruit.
USE 1/2 strength fertilizer spaced several weeks apart rather than use full strength only one time. Measure accurately; too much fertilizer can burn roots and cause leaf damage.

* * *

BROMELIADS

Mary Siemers

START fertilizing when weather begins to warm up. use a water soluble fertilizer, preferably one high in acid - use only half the recommended strength on label. Bromeliads do not care for fish emulsion.
CHECK plants for scale, especially in the spring when scale is more likely to appear.
KEEP plants clean by cutting spent blooms and dead leaves with scissors. Do not force leaves off - this can leave an open wound for possible infection to develop.
START giving plants as much filtered sunlight as

We're Turning the World GREEN With Envy !

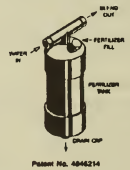
Why? Because *TFS SYSTEMS'* automatic fertilizer injectors make fertilizing easy . . . and economical. Just fill the tank, and each time you irrigate, a little fertilizer will be distributed through the sprinkler or drip system. All YOU do is sit back and watch . . . as your lawns, gardens, trees and shrubs thrive. And that's a pretty enviable position, isn't it!

"ADD-IT".

Pre-Set Automatic Fertilizer Proportioning Injector

Special Features:

- Simple to install and easy to use
- Compact design
- No pressure loss
- No electricity required
- Use with drip, sub-surface, or conventional sprinkler systems
- Save time and money
- Distributes fertilizer evenly



Patent No. 4846214

TFS SYSTEMS

A Division of Trickle Rock Systems

8733 Magnolia Ave, Suite 100 • P.O. Box 710038 • Santee, CA 92071 • (619) 449-6408 • FAX (619) 449-2368

possible. This will give the foliage a bright beautiful color and encourage them to bloom. Sharp serrated leaf plants can take direct sun.
REPOT your favorite plants in a new potting media, providing good drainage.
NEVER allow the soil to be soggy.

* * *

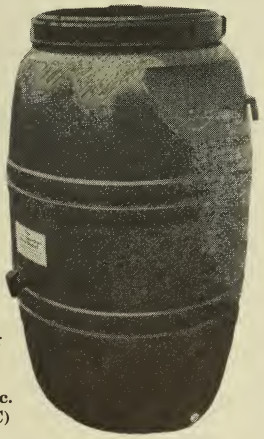
CACTI AND SUCCULENTS
Joseph Betzer

WATER plants more as the weather warms, but do not let them stay wet.
FERTILIZE for growth and flowering, but use fertilizer at half strength or less the recommended rate.
WATCH winter growers; they may slow down their growth. Treat them accordingly.
PROTECT plants from bright sun. New plants to be put in bright sun should be acclimated to this new environment over a period of several weeks or they may be sunburned. Watch for windy days, potted plants can blow over if not securely fastened.

OBSERVE new additions for insect pests away from the rest of your collection. If pests or disease are noticed they can be treated easier if separated from the rest of the collection.

Saves Precious Rainwater!

Reduce costly water bills all summer long with The Great American Rain Barrel™. With water bans now commonplace, our sturdy 55 gallon polyethylene rain barrel provides a convenient and ***cost-free*** supply of water for window boxes, potted plants and flower or vegetable gardens. Our attractive dark green rain barrel is hand-crafted from a ***recycled*** barrel and easily attaches to a downspout in minutes. It's so durable it comes with a ***lifetime guarantee***. Comes complete with spigot, over-flow valve, drain plug, and screw-on cover.



Send $59.95 plus $9.50 UPS to:

The Great American Rain Barrel Company Inc.
90 Sanderson Avenue (1C)
Dedham, MA 02026
(617) 329-8076

Unconditional Money Back Guarantee

KEEP ants under control.
GROOM plants and get ready to show. There are several shows in the spring and summer. Clean up plants and monitor the condition of each specimen.
CHECK repotting needs, use a well-draining mix. Do not over-pot - a good 'rule of thumb' is to leave an inch between the plant and the pot. Use folded newspaper to grasp those tiny specimens.
REPOT seedlings if they have doubled or tripled in size. Repot if the plant has been in the same mix for over six months. You can repot into a community pot of 4 to 9 seedlings each.
SHARE the hobby - pass along those cuttings or seedlings to others - you may inspire someone else with this rewarding hobby.

* * *

CAMELLIAS
E.C. Snooks

MAINTAIN a regular watering schedule.
GRAFT in March; the last time to do so.
CONTINUE picking up bloom to control petal blight.
PRUNE plants as they finish blooming.
PLANT or transplant plants.
FEED iron to increase foliage color.
FERTILIZE for the first time with cottonseed meal, fish or acid fertilizer.
WATCH for looper worms and aphids on new growth - spray with malathion or cygon.
ENJOY the last blooms of the season.

* * *

DAHLIAS
Abe Janzen

START preparing the planting area by adding humus and fertilizer; Use 2 1/4 lbs. each of superphosphate and sulphate of potash per 100 feet of ground.
PLACE tubers in starting medium such as vermiculite or sand.
CHECK tubers for crown rot or soft spots and watch for too much moisture.

PLANT sprouted tubers sprout-side up, 6 inches below ground level, and 2 inches from stake. Cover with 3 inches of soil, moisten, but do not keep wet.
BE SURE to drive stakes into the ground before planting tubers to prevent damaging them.
PROTECT new growth from snails.

* * *

EPIPHYLLUMS (Orchid Cactus)
George French

FEED epiphyllums with a low-nitrogen fertilizer.
STEP-UP watering, but soil must be well draining.
CHECK trellis to be sure plants are well secured.
GIVE plants filtered sunlight to encourage development of buds.
BAIT for snails, especially during rainy or foggy weather.
CHECK for drainage in April. Do not move plants at this time, but continue to feed for bloom; use Hi-Bloom or Bloom-builder type to promote healthy buds and blooms.

TAKE cutting.
REMOVE buds that may form on new plant; that energy needs to go to the root system.

* * *

FERNS
Raymond Sodomka

REMOVE entire dead frons including frost bitten parts.
DIVIDE, repot, or add leaf mold to those plants needing it.
USE Vitamin B1 after dividing; use per instructions on label.
FERTILIZE established plants with high nitrogen liquid or pellets.
PLANT spores.
SPRAY for aphids and scale.
MAINTAIN humidity by keeping surrounding area damp.
CATCH rain water to use on plants in covered areas.

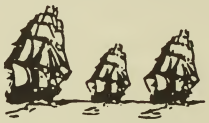
* * *

FUCHSIAS
William Selby

CLEAN up fallen leaves, blooms and other trash.
CONTINUE to take cuttings from prunings.
PINCH new growth on plants that were pruned earlier. As the third set of leaves form on new growth, pinch out terminal set. This will result in a bushier plant.
FERTILIZE with a good balanced fertilizer.
PRUNE plants not done earlier.
WATER thoroughly the day before spraying.
WATCH for insects and treat accordingly.

GERANIUM (Pelargoniums)
Carol Roller

WATER thoroughly when plants become somewhat dry. Allow excess water to drain away. Keep foliage as dry as possible.
CONTINUE feeding with a balanced fertilizer dissolved in water, using less than the recommended amount as often as needed to keep the plants growing well. Long term pellets may be used instead.
CONTINUE pest and disease prevention, using all products according to the manufacturers' direction.
PRUNE and pinch ivies and zonals for future bloom.



FLEETRIDGE TRAVEL

Your Specialists in Worldwide Travel Bargains

FALL/WINTER 1990/91

AIR FARE BARGAINS TO EUROPE

All via scheduled airlines from San Diego.

LONDON - From $519 round trip
PARIS - From $549 round trip
FRANKFURT - $539 round trip
AMSTERDAM - $529 round trip
GLASGOW From $559 round trip

CHELSEA FLOWER SHOW TOUR - May 19th-29th 1991-$1750

PRINCESS CRUISES - "ROYAL PRINCESS" & CROWN PRINCESS. Book before January 31st 1991 and sail to LONDON (Tilbury) or LISBON from $940 per person - 10 day cruises. THIS IS A BARGAIN. - DEP. April 1991.

LAS VEGAS ESCAPES. From $86 per person, includes round trip air from San Diego and hotel accommodations, round trip transfers airport/hotel, $200 Fun Envelope of discounted coupons for gambling, meals and shows.

SENIOR PASSES for flights on DELTA and NORTHWEST AIRLINES. 4 & 8 coupon passes available at great savings over single flights.

HAWAII - Many special packages for Honolulu, or other Islands available priced from $399 per person, air and hotel.

"SPUR OF THE MOMENT TRAVEL." Inquire about our special discounts on last minute bookings for tours and cruises.

HAWAII CRUISE - American Hawaii Cruise Ship "INDEPENDENCE." Join our special Easter Sailing March 30th 1991. Our group departure is hosted by our own Melita Hein. Priced from $997 per person plus air and tax.

PREMIER CRUISES & "DISNEYWORLD" Week. Now on Sale from $795 per person including free air from San Diego. Rate includes 3/4 night cruise to Bahamas, 3/4 days Orlando/DisneyWorld/EPCOT Center, including all admission to EPCOT Center, Magic Kingdom, Spaceport USA, Disney/MGM Studios.

WE SPECIALIZE IN GARDEN TOURS OF EUROPE!
IF YOU DON'T SEE WHAT YOU ARE LOOKING FOR, CALL US, WE'RE SURE TO HAVE IT!!

(619) 222-0383
FLEETRIDGE TRAVEL SERVICE
3725 TALBOT STREET, SAN DIEGO, CALIFORNIA 92106
(at Lucky Store Parking Lot)
TELEX 495-3083 FAX 222-6211

Avoid cutting regals, scenteds and related types because their flowers will be lost by pruning at this time.
MAKE cuttings from the ivy and zonal prunings.
REMOVE faded flowers and old, discolored leaves.
ROTATE pots on a regular basis in order to produce well-shaped plants.

* * *

IRIS

San Diego-Imperial County Iris Society

CLEAN beds and keep weeds under control.
WATER regularly if no rain.
START feeding with a low-nitrogen, all-purpose or liquid fish fertilizer.
WATCH for pests; systemic sprays applied as a drench will usually free iris of aphids and thrips.
GIVE Japanese and Louisianas acid food; camellia type fertilizer may be used.

* * *

ORCHIDS

Charles Fouquette

FOR CYMBIDIUMS peak blooming period. Give a lot of light (do not burn) and ventilation.
DIVIDE and repot if not in bloom, or as soon as spike is cut off.
POSSIBLY still use low-nitrogen fertilizer in March. In April, as weather warms, and growth starts, give a diluted solution of high-nitrogen fertilizer every 7-10 days.
MOVE plants to more shade as weather clears.
FOR PHALAENOPSIS - give them 900-1200 foot candles of light or more, depending on the angle of light.
KEEP temperature in March no lower than 65 degrees with good air movement; in April 65-85 degrees.
CONTROL insects and diseases; check with local nurseryman.
FERTILIZE with 18-18-18 or equivalent.
WAIT until June to repot.

ROSES

Brian Donn

WATER at least once a week in dry weather.
APPLY 1 to 2" of mulch - manures, redwood compost, prepared mulch mix - to conserve moisture and discourage weeds.
CHECK for mildew, rust, insects and mites. Spray as needed: Funginex and Triffopine will control the fungus, Mavrick and Orthenex will control pests. Read the labels and use as directed.
FEED regularly with prepared rose food such as Bandini or liquid fish emulsion about every three weeks. You can get creative and use a mixture.
BE SURE you have watered the day before spraying or feeding. Never spray or feed a dry plant.
ATTEND local rose shows.

* * *

GREEN THUMB ITEMS

DIVIDE chrysanthemums - take cuttings from old plants and make divisions.
FINISH planting bare-rooted trees and shrubs in March.
CUT BACK poinsettias around St. patrick's Day; removing last year's growth to within two joints of the old wood.
PLANT calla lilies, cannas, gladiolus and tuberous begonias.
GIVE a top dressing of fresh rich soil and humus to clivias, agapanthus and amaryllis.
PLANT perennials - carnation, gerberas, marguerites, Shasta daisies.
SET OUT annuals such as zinnias, pansies, marigolds and petunias for fast growth and spring color.
START feeding camellias, azaleas or rhododendrons with acid fertilizer when they stop blooming.

This page sponsored by Hazard Mart

San Diego's largest and most fully stocked Masonry and Landscape Centers with two locations to serve you.

Miramar
5590 Eastgate Mall Road
619/587-3636

El Cajon
1155 Vernon Way
619/448-7411

Apr. 14 **CONVAIR GARDEN CLUB 40th Annual Rose Show**
Casa del Prado, Majorca Room , Balboa Park. 1-4:30 p.m. Free.

Apr. 16 *** SAN DIEGO FLORAL ASSOCIATION Bus Trip to Descanso Gardens**
Pickup at Balboa Park, La Mesa, La Jolla, & Hadley's. Thousands of annuals & bulbs on display during annual spring celebration. Tram ride & catered lunch included. $30.50 members; $32.50 non-members. Reservations: 232-5762.

Apr. 16 *** SAN DIEGO FLORAL ASSOCIATION Quarterly Meeting & Dinner**
Casa del Prado, Majorca Room Balboa Park. 5:45 p.m. social hour & dinner; 7:15 p.m. meeting & program. Dick Streeper, San Diego Union writer and liaison with the American Rose Society, will speak on "Roses, Roses, Roses". Dinner $4.50 members, $5.50 non-members. Information & reservations: 232-5762.

Apr. 16 & 17 **POINT LOMA GARDEN CLUB 16th Standard Flower Show**
St. Peter's by the Sea Church Hall, 1371 Sunset Cliffs Blvd. Tues.: 1-5 p.m.; Wed.: 10-4 p.m. Free. Call 223-7769.

Apr. 17 & 24 *** SAN DIEGO FLORAL ASSOCIATION Velma West Flower Arranging**
Casa del Prado, Room 102, Balboa Park. Cost for both full day classes: $17 members, $19 non-members. Call Marie Walsh to register: 298-5182.

Apr. 20 & 21 **SAN DIEGO-IMPERIAL COUNTY IRIS SOCIETY 26th Annual Show**
Casa del Prado, Majorca Room, Balboa Park. Sat.: 12-5 p.m.; Sun.: 11-4:30 p.m. Free.

Apr. 20 & 21 **RANCHO SANTA FE GARDEN CLUB Annual Flower Show & Plant Sale**
Corner of La Granada & Avenida Acacias, Rancho Santa Fe. Sat.: 1-5; Sun.: 10-5 p.m. Free. Call 756-0597.

Apr. 25 **LA JOLLA GARDEN CLUB Coach Tour to Pasadena**
Pickup at La Jolla Village Square. Visit Norton Simon & Pacific Asia Museums. Proceeds to benefit conservation & civic projects. $35. Lunch on own. Reservations: 454-4696 or 459-2825.

Apr. 27 & 28 **FALLBROOK GARDEN CLUB, INC. 60th Annual Flower Show**
Potter Junior High School, 1743 Reche Road, Fallbrook. Entries in horticulture & artistic design. Educational & bonsai exhibits. Sat.: 2-6 p.m.; Sun.: 10-4 p.m. Free. Call 723-7577.

Apr. 27 & 28 **FULLERTON ARBORETUM Annual Plant Sale**
NE corner of Cal State University, Yorba Linda Blvd. at Associated Road, just west of 57 freeway. Ornamentals, fruit trees, vegetables; lectures & demonstrations; horticultural information booth. Sat. & Sun.: 10-4 p.m. $2. $5 Families. Call 714/773-3579.

Apr. 27 & 28 **SAN DIEGO BONSAI CLUB 26th Annual Show**
Casa del Prado, Majorca Room, Balboa Park. Sat. & Sun.: 11-5 p.m. Free.

May 1 *** SAN DIEGO FLORAL ASSOCIATION May Day Basket Class with Kathy Walsh**
Casa del Prado, Balboa Park. All materials supplied. $10.50 members, $11.50 non-members. Call Marie Walsh for reservations: 298-5812.

May 4 **OHARA SCHOOL OF IKEBANA, LA JOLLA CHAPTER 10th Anniversary Celebration**
La Jolla Marriott Hotel, 4240 La Jolla Village Drive. Japanese flower arranging demonstration & luncheon. 11 a.m. $35. Reservations: 456-0559 or 487-9465.

May 4 & 5 **HEARTLAND AFRICAN VIOLET SOCIETY 10th Annual Show**
Casa del Prado, Majorca Room, Balboa Park. Sat.: 1-5 p.m.; Sun.: 11-5 p.m. Free.

May 4 & 5 **VISTA GARDEN CLUB 58th Annual Standard Flower Show & Plant Sale**
Brengle Terrace Park Sr. Center; 1200 Vale Terrace, Vista. Sat.: 1:30-5 p.m.; Sun.: 10-4:30 p.m. Free. Call 758-0234.

May 19-28 *** SAN DIEGO FLORAL ASSOCIATION Chelsea Flower Show Tour**
Escorted tour of England and Scotland including members only preview day of Chelsea Flower Show. Reservations and information call: 232-5762.

May 23-27 **AMERICAN IVY SOCIETY & SAN DIEGO ZOO "Animals in the Garden"**
San Diego Zoo, Balboa Park. National conference on the art of topiary & topiary exhibition. Information: 459-1235.

Every Saturday **OFFSHOOT TOURS One-Hour Plant Walks in Balboa Park**
Meet in front of Botanical Lath House. Canceled for rain or less than 4 attendees. 1st Sat.: Heart of the Park Tour; 2nd Sat.: Palm Walk; 3rd Sat.: Tree Walk; 4th Sat.: Desert Walk; 5th Sat.: Sample of all four tours. 10 a.m. Free. No reservations.

Deadline for submission to HORTICULTURAL CALENDAR for May/June issue is March 15.

SAN DIEGO FLORAL ASSOCIATION is not responsible for changes in information which has been submitted by the organizations.

SAN DIEGO FLORAL ASSOCIATION, INC.
CLUB AND PROFESSIONAL AFFILIATES

ASSOCIATE CLUBS

CITY BEAUTIFUL OF SAN DIEGO
Pres: Ruth C. Smith
4995 Fanuel Street
San Diego CA 92109-2134
619/488-0830
1st Mon - 11:30 am
Rondavel Room San Diego Zoo

MIRACOSTA HORTICULTURE CLUB
Pres: Helen Odom
1253 Nordahl Road
Escondido CA 92026
619/743-1921
3rd Sat - 2:00 pm
Student Center Building
Miracosta Community College

QUAIL BOTANICAL GARDENS FOUNDATION, INC
Librarian: Druscilla Luers
P. O. Box 5
Encinitas CA 92024-0005

PROFESSIONAL WOMEN'S HORTICULTURAL AND LANDSCAPE ASSN. (PWHLA)
Pres: Carol Hopkins
1233 Pepper Tree Lane
Fallbrook CA 92028-0000
619/723-4316
4th Wed - Jan-Mar-May-Sep
1st Wed - Nov

SAN DIEGO ASSOCIATION OF PROFESSIONAL HORTICULTURISTS
Pres: Emilio Giolzetti
11715 Lake Grove Court
San Diego CA 92131
619/530-0358
4th Mon - 7:30 pm
Casa del Prado Rm 104
Balboa Park

SAN DIEGO BOTANICAL GARDEN FOUNDATION
Pres: Kathie J. Van Arum
1825 "I" Avenue
National City CA 92050-5836
619/477-5258

SOUTHWESTERN JUDGES COUNCIL
Chr: Bettie Morris
1148 Canary Court
San Marcos CA 92069-4717
619/744-3435
1st Wed - 10:00 am
Casa del Prado Balboa Park

GARDEN CLUBS

BERNARDO GARDENER'S CLUB
Pres: Helen H. Andrews
12764 Via Moura
San Diego CA 92128-1245
619/485-9272
3rd Thu - 1:30 pm
Josyln Senior Center
724 N. Broadway Escondido

BONITA VALLEY GARDEN CLUB
Pres: Carol Robertson
3391 Cypress Street
National City CA 92050-7751
619/475-8487
2nd Wed - 9:30 am Coffee
10:00 am Meeting Sep thru Jun
Rohr Park Manor Bonita

BRIDGE AND BAY GARDEN CLUB
Pres: Susanne Scribner
861 Coronado Avenue
Coronado CA 92118-2434
619/435-8088

CHULA VISTA GARDEN CLUB
Pres: Mrs. Robert Anderes
1569 Oleander Avenue
Chula Vista CA 92011-5645
619/421-9631
3rd Wed - 1:00 pm
Rohr Park Manor Bonita

CONVAIR GARDEN CLUB
Pres: Virginia Soderberg
6197 Arno Drive
San Diego CA 92120-4624
619/582-7098
1st Wed - 7:30 pm
Casa del Prado Balboa Park

CORONADO FLORAL ASSOCIATION
Pres: Oliver D. Compton
P. O. Box 118
Coronado CA 92118-0118
619/435-1723
Twice Annually
By Call of President

CROWN GARDEN CLUB
Pres: Mrs. David Sigsworth
861 Balboa
Coronado CA 92118-2424
619/435-5028
4th Thu - 9:00 am
Coronado Library Coronado

DOS VALLES GARDEN CLUB
Pres: Mrs. Don Kratzer
P. O. Box 1020
Valley Center CA 92082-7701
619/749-0337
2nd Tue - 1:00 pm
Valley Center Community
Hall Valley Center

ESCONDIDO GARDEN CLUB
Pres: Mrs. Duane Standiford
2460-9 Bear Valley Parkway
Escondido CA 92027-3512
619/745-2087
3rd Fri - 1:00 pm
Joslyn Senior Center
724 N. Broadway Escondido

FALLBROOK GARDEN CLUB
Pres: Kay Brick
622 Golden Road
Fallbrook CA 92028-9304
619/723-9240

FLEUR DE LEAGUE GARDEN CLUB
Pres: Mrs. Delbert Gambill
7450 Via Capri
La Jolla CA 92037-2848
619/459-0496
2nd Mon - 10:30 am
Home of Members

GROSSMONT GARDEN CLUB
Pres: Betty Brending
8429 Midland Street
La Mesa CA 92042-7730
619/463-1273
2nd Mon - 9:30 am
4975 Memorial Drive La Mesa

LA JOLLA GARDEN CLUB
Pres: Mrs. Robert H. Van Kirk
7821 Boulevard Place
La Jolla CA 92037-3931
619/459-2825
3rd Tue - 1:30 pm
Sep-Jun
La Jolla Lutheran Church
7111 La Jolla Boulevard La Jolla

LAKESIDE GARDEN CLUB
Pres: Donna Swink
11351 Eucalyptus Hills Drive
Lakeside CA 92040-1208
619/443-4176
3rd Mon - 7:30 pm
Lakeside Recreation Center
12219 Roberts Way Lakeside

LAS JARDINERAS
Pres: Mrs. Richard Haugh
5471 Caminito Agua
La Jolla CA 92037
3rd Mon - 10:30 am
Home of Members

LEISURE WORLD GARDEN CLUB
Pres: Mrs. Wayne F. Dyer
13171 St. Andrews Drive #154L
Seal Beach CA 90740-3446
213/596-4161

ORGANIC GARDEN CLUB SAN DIEGO
Pres: Mr. Stan Rys
1233 Hayes Avenue
San Diego CA 92103
619/298-9118
1st Mon - 7:30 pm
Jan-Mar-May-Jul-Sep-Nov
Casa del Prado Balboa Park

PACIFIC BEACH GARDEN CLUB
Pres: Marilesse Grove
P.O. Box 443
La Jolla CA 92038
619/unlisted
2nd Mon - 1:00 pm
Sep thru Jun
Recreation Center Pacific Beach

POINT LOMA GARDEN CLUB
Pres: Ellen E. Kuhns
875 Albion Street
San Diego CA 92106-2933
619/222-2765
2nd Wed - 10:00 am
Sep-Jun 3598 Talbot
Westminister Presby Church

PALOMAR DISTRICT CALIFORNIA GARDEN CLUBS, INC.
Dir: Mrs. John H. Lewis
11330 Vista La Cuesta Drive
San Diego CA 92131-1914
619/566-5727

POWAY VALLEY GARDEN CLUB
Pres: Brenda Robinson
P. O. Box 27
Poway CA 92064
619/748-1978
2nd Wed - 9:00 am
Lake Poway Pavilion

RANCHO SANTA FE GARDEN CLUB
Pres: Mrs. Phyllis Aylmer
Hort Chrm: Vera Sanjana
P. O. Box 1257
Rancho Santa Fe CA 92067-1646
2nd Tue - 7:30 pm
Rancho Santa Fe Garden Club
Avenida de Acacias

SAN CARLOS GARDEN CLUB
Pres: Jane Combs
625 Tyrone
El Cajon CA 92020-0000
619/447-3507
4th Tue - 9:30 am
Home of Members

SAN DIEGUITO GARDEN CLUB
Pres: Mrs. David W. Hoke
9463 Quail Canyon Road
El Cajon CA 92021
1st Wed
9:30 am - Refreshments
10:00 am Meeting
Quail Botanical Gardens

THE VILLAGE GARDEN CLUB OF LA JOLLA
Pres: Mrs. Deykes Whitney
3349 Wellesley Avenue
La Jolla CA 9212-0000
619/546-0393
4th Thu - 1:00 pm
Sep thru May
United Methodist Church

THE VISTA GARDEN CLUB
Pres: Mrs. William Winters
3030 Winters Hill
Vista CA 92084-0000
1st Fri - 12:00 pm
Vista Senior Service Center
222 Jefferson St. Vista

IKEBANA SCHOOLS

ICHIYO SCHOOL OF IKEBANA
SAN DIEGO CHAPER
Pres: Haruko Crawford
10411 San Carlos Drive
Spring Valley CA 92078-1034
619/660-2046

IKEBANA INTERNATIONAL CHAPTER 119
Pres: Barbara E. Church
5845 Friars Road #1113
San Diego CA 92110-6004
619/298-1535
4th Wed - 10:00 am
Sep thru Jun
Casa del Prado Balboa Park

IKENOBO CHAPTER OF SAN DIEGO
Pres: Mrs. Charles Oehler
2822 Walker Drive
San Diego CA 92123-3056
619/278-5689

OHARA SCHOOL OF IKEBANA
LA JOLLA CHAPTER
Pres: Mrs. Robert Fox
922 Skylark Drive
La Jolla CA 92037
619/456-0559
2nd Tues - 10:00 am
Forum Hall University Town Center La Jolla

OHARA SCHOOL OF IKEBANA
SAN DIEGO CHAPTER
Pres: Mrs. Walter Bourland
2936 Havasupai Avenue
San Diego CA 92117-1641
619/276-4667

SOGETSU SCHOOL OF IKEBANA
Pres: Mrs. Leroy Lahey
2829 Flax Drive
San Diego CA 92154-2160
619/429-6198

PLANT SOCIETIES

AFRICAN VIOLETS

SAN DIEGO DAYTIME AFRICAN VIOLET SOCIETY
Pres: Anne Stewart
442 "F" Street
Chula Vista CA 91910
619/422-6841
2nd Mon - 1:00 pm
Christ United Methodist Church San Diego

BALBOA PARK AFRICAN VIOLET SOCIETY
Pres: Mrs. Barbara Wallace
1075 Hayes Avenue
San Diego CA 92103
619/298-7870
4th Mon -6:30 pm Dessert
7:00 pm Meeting
Casa del Prado Balboa Park

HEARTLAND AFRICAN VIOLET SOCIETY
Pres: Mrs. Beth Kalah
3760 Carol Way
Spring Valley CA 91977
619/469-5579
3rd Tue - 7:00 pm Wells Park Center
1153 East Madison El Cajon

AROID

INTERNATIONAL AROID SOCIETY
Pres: Bruce McManus
11691 SW 93rd Street
Miami FL 33176-1009
305/271-3767

BAMBOO

AMERICAN BAMBOO SOCIETY
Pres: Mr. Gerald Bol
Box 640
Springville CA 93265-0640
209/539-2145

BEGONIA

ALFRED D. ROBINSON BRANCH AMERICAN BEGONIA SOCIETY
Pres: Edalee Harwell
1055 Benecia Street
San Diego CA 92110
2nd Tue - 10:30 am
Home of Members

SAN MIGUEL BRANCH AMERICAN BEGONIA SOCIETY
Pres: Toni Baker
6475 50th Streeet
San Diego CA 92120-1323
619/582-7516
Last Sat - 10:30 am
Home of Members

BONSAI

SAN DIEGO BONSAI CLUB, INC.
Pres: Everett Jones
P. O. Box 40037
San Diego CA 92104-0970
619/421-3721
2nd Sun - 11:00 Workshop
1:00 pm Meeting
Casa del Prado Balboa Park

BROMELIAD

BROMELIAD STUDY GROUP OF BALBOA PARK
Pres: Shirley McKim
3911 Portola Place
San Diego CA 92103
619/298-5536
2nd Tue - 7:30 pm
Casa del Prado Rm 104
Balboa Park San Diego

SAN DIEGO BROMELIAD SOCIETY
Pres: David Waller
10272 Black Mountain Rd. #160
San Diego CA 92126-3831
619/578-7041
1st Thu - 7:45 pm
Byzantine Catholic Church
2235 Galahad Road Serra Mesa

CAMELLIA

SAN DIEGO CAMELLIA SOCIETY
Pres: Dean Turney
631 West Pennsylvania Avenue
San Diego CA 92103-3951
619/299-5418
3rd Wed - 7:30 pm
Casa del Prado Balboa Park

CACTUS & SUCCULENT

PALOMAR CACTUS AND SUCCULENT SOCIETY
Pres: Eleanore Hewitt
P.O. Box 840
Escondido CA 92025
619/no phone
4th Sat - 12:45 pm
Joslyn Senior Center
724 N. Broadway Escondido

SAN DIEGO CACTUS AND SUCCULENT SOCIETY
Pres: Mr. Michael Buckner
1958 Sunset Cliffs Blvd, #103
San Diego CA 92107
619/222-3216
2nd Sat - 1:30pm
Casa del Prado Balboa Park

DAHLIAS

AMERICAN DAHLIA SOCIETY INC.
Mem Chmn: Michael Martinolich
159 Pine Street
New Hyde Park NY 11040-2446
516/742-3898

SAN DIEGO COUNTY DAHLIA SOCIETY
Pres: Gerald Lohmann
6616 Rockglen Avenue
San Diego CA 92111-4108
619/279-5135
4th Tue - 7:30 pm
Except Jul & Dec
Casa del Prado Balboa Park

EPIPHYLLUM

SAN DIEGO EPIPHYLLUM SOCIETY
Pres: Mr. George Plaisted
6356 Delbarton Street
San Diego CA 92120-2618
619/583-9551
2nd Wed - 7:30 pm
Casa del Prado Balboa Park

EXOTIC

EXOTIC PLANT SOCIETY
Pres: George Plaisted
6356 Delbarton
San Diego CA 92120-2618
619/583-9551
4th Tue - 7:00 pm
Wells Recreation Center

FERN
SAN DIEGO FERN SOCIETY
Pres: George Plaisted
6356 Delbarton Street
San Diego CA 92120-2618
619/583-9551
3rd Thu - 7:30 pm
Casa del Prado Balboa Park

FRUIT
CALIFORNIA RARE FRUIT GROWERS
Mrs. Claire Guggenheim
4601 Murphy Avenue
San Diego CA 92122
619/453-3321

FUCHSIA & SHADE PLANTS
SAN DIEGO COUNTY BRANCH
NATIONAL FUCHSIA SOCIETY
Pres: Janet Wright
610 N. Nevada Street
Oceanside CA 92054
619/722-3373
2nd Thu - 7:00 pm
Palmquist Elementary School
1999 California St. Oceanside

SAN DIEGO FUCHSIA AND
SHADE PLANT SOCIETY
Pres: Mrs. meda Williams
1094 Devonshire Drive
San Diego CA 92107
619/224-5229
2nd Mon - 7:30 pm
Casa del Prado Balboa Park

SUN HARBOR BRANCH
NATIONAL FUCHSIA SOCIETY
Pres: Mr. Quanah Hanes
5977 Lake Murray Blvd.
La Mesa CA 91942
619/423-0213
4th Wed - 7:00 pm.
Casa del Prado Balboa Park

GERANIUM
SAN DIEGO GERANIUM SOCIETY
Pres: Mr. George Plaisted
6356 Delbarton Street
San Diego CA 92120-2618
619/583-9551
2nd Tue - 7:30 pm
Casa del Prado Balboa Park

HEMEROCALLIS
SOUTHWEST HEMEROCALLIS SOCIETY
Pres: Mariette Pinchart
1601 Burgandy Road
Encinitas CA 92024
619/no phone
1st Sat - 10:00 am
Feb-Apr-Jun-Sep-Nov
Quail Botanical Gardens
Encinitas

IRIS
SAN DIEGO/IMPERIAL COUNTIES
IRIS SOCIETY
Pres: William Barr
12565 Cloudesley Drive
San Diego CA 92128-3527
619/451-6333

IVY
THE AMERICAN IVY SOCIETY
CALIFORNIA CHAPTER
Pres: Yolanda de Silva
16005 Fellowship Road
Valinda CA 91744-1323
Local Contact:
Frances Rynearson
619/459-1235

NATIVE PLANTS
CALIFORNIA NATIVE PLANT SOCIETY
SAN DIEGO CHAPTER
Pres: James Dice
5524 Waverly Avenue
La Jolla CA 92037
619/459-7842
3rd Tue - 7:30 pm
Casa del Prado Balboa Park

LAKE HODGES NATIVE PLANT CLUB
Pres: Dorris Baur
16516 Gabarda Road
San Diego CA 92128-3021
619/487-6614
3rd Mon - 3:00 pm
16003 Turtleback Road
Rancho Bernardo

ORCHID
CYMBIDIUM SOCIETY OF
AMERICA, INC.
SAN DIEGO COUNTY BRANCH
Pres: Kathy Belz
2767 High Mead Circle
Vista CA 92084-1830
619/941-0382
3rd Thu - 7:30 pm
Oct thru Jun Quail Botanical
Gardens Encinitas

PALOMAR ORCHID SOCIETY
Pres: Neta Jaynes
802 McDonald Road
Fallbrook CA 92028-3540
619/728-8974
2nd Fri - 7:30 pm
Vista Senior Center
222 Jefferson St. Vista

SAN DIEGO COUNTY ORCHID SOCIETY
Pres: Mr. Paul Tuskes
3808 Sioux Avenue
San Diego CA 92117
619/274-5829
1st Tue - 7:30 pm
Casa del Prado Balboa Park

ROSE
CALIFORNIA COASTAL ROSE SOCIETY
Pres: Steve Marvin
P. O. Box 133
Carlsbad CA 92008-0030
619/433-2454
3rd Tue - 7:00 pm
Calavera Hills Community
Center Carlsbad

EAST COUNTY ROSE SOCIETY
Pres: Sally Long
1663 Fuerte Ranch Road
El Cajon CA 92019-3730
1st Sun - 2:00 pm
Gardens of Members

SAN DIEGO ROSE SOCIETY
Pres: Dallas Runion
1627 Regulus Street
San Diego CA 92111-7129
619/279-6134
3rd Mon - 7:30 pm
Oct thru Jun
Casa del Prado Balboa Park

WATER LILY
THE WATER LILY SOCIETY
Pres: Norman Bennett
c/o Charles B. Thomas, Sec.
P. O. Box 104
Buckeystown MD 21717-0104
301/874-5373

PROFESSIONAL AFFILIATES

ELLIS FARMS
1325 Borrego Valley Road
Borrego Springs CA92004-0961
619/757-5235

LINDA A. FARRIER
1435 Caudor Street
Lecudadia CA 92024-1804
619/436-7092

THE GARDEN DOCTOR
3755 Avocado Boulevard
La Mesa CA 91941
619/441-1468

GRIGSBY FAMILY LANDSCAPE
Jim & Kathleen Grigsby
7964 High Street
La Mesa CA 92041-7865
619/461-7732

HORTICULTURIST, LECTURER,
AUTHOR
Bettie L. Furuta
2055 Rice Canyon Road
Fallbrook CA 92028-9631
619/723-8678

HOUSE OF BODE
Mr. & Mrs. William T. Bode
2800 Huntington Road
Sacramento CA 95864-5638
916/483-5977

MASTER LANDSCAPE
SERVICES, INC.
Robert Mayberry &
Gary Rodgriguez
3089-C Clairemont Drive #296
San Diego CA 92117-6802
619/276-6016

PRESIDIO GARDEN CENTER
5115 Linda Vista Road
San Diego CA 92110-2602
619/297-4216

STERLING TOURS
Cheryl Hedgpeth
2707 Congress Street
San Diego CA 92110-2758
619/299-3010

SUNSHINE GARDENING SERVICE
Ken Fernandes
3021 McCall
San Diego CA 92106-3464
619/224-1930

Computerization of Page Layouts by:

R. Barry Lewis
Computer System Analyst
619/460-2136

SAN DIEGO FLORAL ASSOCIATION, INC.

GARDEN CENTER & LIBRARY
CASA DEL PRADO ROOM 105 SAN DIEGO CA 92101-1619
619/232-5762

MEETING

3rd Tue - Feb Apr Jun Oct
Casa Del Prado Room 101
Balboa Park San Diego

HONORARY LIFE MEMBERS
Allethe Macdonald
Polly Whigham
Elizabeth B. Glover
Barbara S. Jones
Roy Jones

Under the sponsorship of the Park & Recreation Department, City of San Diego, California

OFFICERS

President
Donald Boyer
280 Hihill Way
El Cajon CA 92020
619/442-4242

1st Vice President
Mrs. William Rathmann

2nd Vice President
Pat Kastama

Treasurer
Nancy Cottingham

Recording Secretary
Barbara Jones

Corresponding Secretary
Jean Johns

Past President
Jo Rathmann

Office/Financial Secretary
Tillie Marcus

DIRECTORS

Term 1988-1991
John J. Gagliardi
Roy Jones
Kathy Walsh

Term 1989-1992
Lynn Beyerle
Milton Sessions
Lois Vaiana

Term 1990-1993
Frances Clare
Marie Walsh
Vernice Putman

COMMITTEES

Computer Operator
Lynn Beyerle

Editor, California Garden
John J. Gagliardi
619/449-1648

Flower Arrangers Guild
Marie Walsh
619/298-5182

Historian
Barbara Jones
619/222-1032

Public Relations
Mary Jordan
619/222-7665

Hospitality
Kathy Walsh
619/296-8429

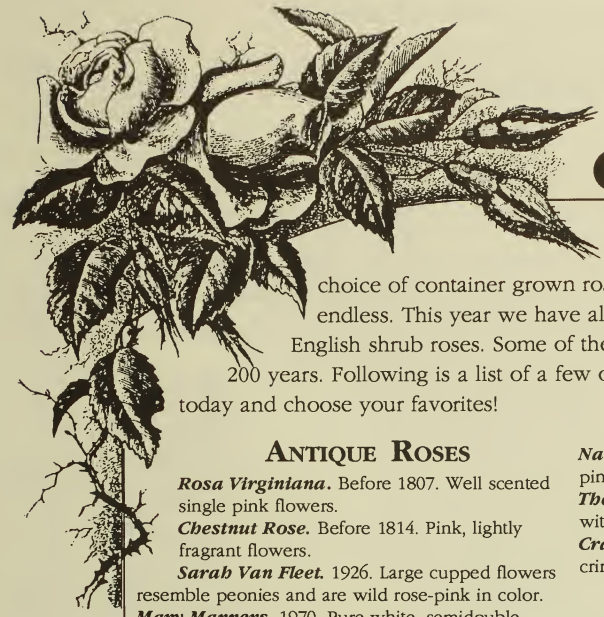
Host & Hostesses
Vernice Putman
619/749-9587

Tours
Helen A. Gagliardi
619/449-1648

Properties
Pat Kastama
619/222-2707

Newsletter
John J. Gagliardi
619/449-1648

Hyacinth | Sweet William | Marigold



Now Appearing at
Mission Hills Nursery

Roses Old and New!

Now is the season for roses, so the choice of container grown roses at Mission Hills Nursery is practically endless. This year we have also introduced a new line of antique and English shrub roses. Some of these varieties have been grown for over 200 years. Following is a list of a few of the varieties now available. Stop by today and choose your favorites!

Antique Roses

Rosa Virginiana. Before 1807. Well scented single pink flowers.
Chestnut Rose. Before 1814. Pink, lightly fragrant flowers.
Sarah Van Fleet. 1926. Large cupped flowers resemble peonies and are wild rose-pink in color.
Mary Manners. 1970. Pure white, semidouble flowers with rough dark green foliage.
Enchantress. 1904. Double flowers of dark rose.
Hippolyte. Double flowers of a rich purple-crimson that fades to violet with age.
Bon Silene. 1837. Double flowers of deep rose pink unfurl from the classic long pointed buds.
Little Buckaroo. 1956. Blooms constantly with small, double, starry scarlet flowers.
Champneys' Pink Cluster. 1811. Clusters of small light pink double flowers.
La Biche. 1832. Large pale flowers inclining to fawn color in the center. Fragrant.
Natchitoches Noisette. Clusters of cupped light pink flowers.
The Green Rose. Prior to 1845. Neat green flowers with sepal-like petals.
Cramoisi Superieur. 1832. Clusters of cupped crimson roses.

English Shrub Roses

Belle Story. Austin 1984. English rose, very large, well-scented. Blooms pink with slight peach color.
Gertrude Jekyell. Austin 1986. English rose. Old fashioned characteristics. Strong scent, pink color.
Graham Thomas. Austin 1983.Strong tea-scented blooms, light yellow blooms.
Ferdinand Pichard. Tanna 1921. Well scented, fully double, pink flowers stripped with crimson.
Lucetta. Austin 1983. Pink blooms fade to almost white. Fragrant. Can be used as climber.
Othello. Austin 1986. Strong scented blooms.Rich crimson truning to purple and mauve shades.

MISSION HILLS NURSERY
The gardener's store

1525 Ft. Stockton St.
San Diego, CA 92103
295-2808
Hours: 9 a.m. to 6 p.m.,
7 days a week

Mention this ad and receive 20% off your next purchase at Mission Hills Nursery!
Not valid on sale merchandise. Expires April 30, 1991.

CALIFORNIA GARDEN (USPS 084-240)
San Diego Floral Association, Inc.
Casa del Prado, Balboa Park
San Diego, CA 92101-1619, USA

SECOND CLASS POSTAGE PAID AT SAN DIEGO, CALIFORNIA